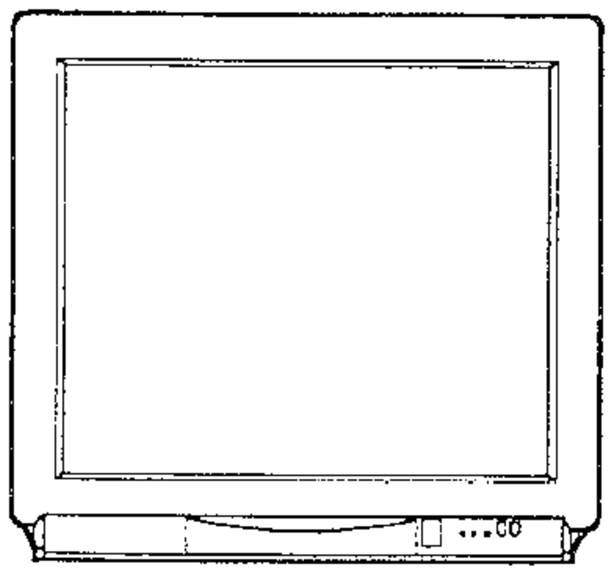
HITACHI

YK | No. 0476E

SERVICE MANUAL

MULTI SYSTEM

A3P-B2 Chassis



CAUTION: Before servicing this chassis, it is important that the service technician reads the "Safety Precaution" and "Product Safety Notices" in this Service Manual.

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SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

COLOR TELEVISION

May 1995

Information & Image Systems Division
Yokohama Operation

SAFETY PRECAUTIONS

WARNING: Since the chassis of this receiver is connected to one side of the Mains Supply during operation, service should not be attempted by anyone unfamiliar with the precautions necessary when working on this type of equipment. The following precautions should be observed.

1. Do not install, remove, or handle the picture tube in any manner unless shatter-proof goggles are worn. People not so equipped should be kept away while picture tubes are handled. Keep picture tube away from the body while handling.
2. When replacing chassis in the cabinet, all the protective devices are put back in place, such as; barriers, non-metallic knobs, adjustment and compartment cover or shields, isolation resistors-capacitors, etc.
3. When service is required, observe the oritinal lead dress. Extra care should be taken no assure correct lead dress in the high voltage circuitry area.
4. Always use the manufacturer's replacement component. Especially critical components as indicated on the circuit diagram should not be replaced by other makes. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
5. Before returning a serviced receiver to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the instrument by the manufacturer has become defective, or inadvertenly defeated during servicing. Therefore, the following checks are recommended for the continued protection of the customers and service technicians.

INSULATION

Insulation resistance between the mains poles and any accessible metal parts should not be less than 7MΩ at 500V DC. Also, no flashover or breakdown should occur during the dielectric strength test, to apply 4KV AC for one minute between the mains poles and any accessible metal parts.

X-RADIATION

TUBES: The primary source of X radiation in this receiver is the picture tube. The tube utilized in this chassis is specially constructed to limit X radiation.
For continued X radiation protection, the replacement tube must be the same type as the original. HITACHI approved type.

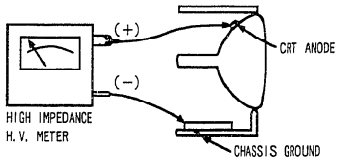
High Voltage

This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this hold down circuit is operated correctly.

Serviceman Warning

With minimum Black Level and Picture, the operating high voltage in this receiver is lower than 33.0kV. In case any component having influence on the high voltage is replaced, confirm that high voltage with minimum Brightness and contrast is lower than 33.0kV.
To measure H.V. use a high impedance H.V. meter.
Connect (−) to chassis earth and (+) to the CRT anode button. (See the following connection diagram).

NOTE: Turn the power switch off without fail before the connection to the Anode button is made.



PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in HITACHI television receiver have special safety related characteristics. These characteristics are often not evident from visual inspection nor can be protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.
Electrical components having such features are identified by marking with a ⚠ mark in the schematics and on the replacement parts list in this Service Manual. The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI recommended replacement one shown in the parts list in this Service Manual, may create electrical shock, fire, X radiation, or other hazards.
Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies of, HITACHI Service Manual may be obtained at a nominal charge from your HITACHI SALES CORPORATION.

CMT2998VP

TECHNICAL CAUTIONS

High voltage limitor circuit operation check

1. Connect the high voltage voltmeter between the CPT anode (anode cap) and GND (CPT grounding lead).
2. Receive the broadcast signal and set the brightness and contrast VRs to max. Set the beam current to 1.50mA±10. (After cut-off adjustment)
3. Set the AC input voltage to 220±3V.
4. Check that the constant high voltage is 28.0±1.0kV at this time.
5. Turn the switch of the set to off and connect the jig shown in Fig.3 at both ends of R956 as shown in Fig.1.
6. With the brightness and contrast VRs left as set in item.2 and with the AC input voltage stabilized at 220V, turn the picture disappears with a high voltage of 32.5kV or less.
7. Turn the switch of the set to off immediately after the check is completed.
8. Remove the adjust jigs and high voltage voltmeter.

NOTE: When connecting disconnecting the high voltage voltmeter to fron the anode cap, be sure to turn the switch of the set off and do it after the residual high voltage is discharged to the chassis because the high voltage may remain at the anode cap.

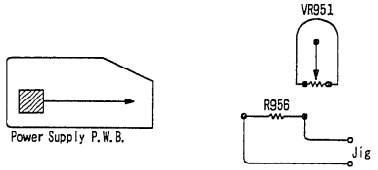


Fig. 1

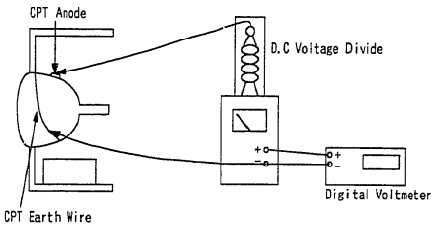


Fig. 2

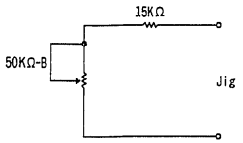


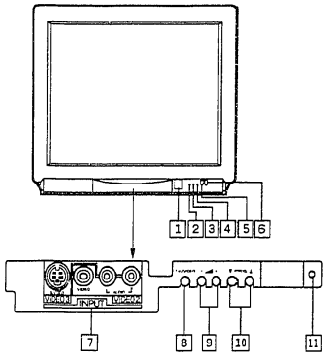
Fig. 3

TECHNICAL SPECIFICATIONS

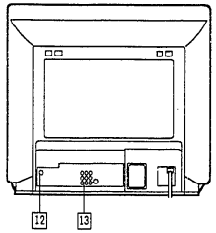
Reception system	625-lines B.G/I/D.K/H PAL B.G/D.K/K' SECAM NTSC5D	Antenna input	75Ω unbalanced type
		Color picture tube	A68KSA30X
		Speaker	10φ×2, tweeter×2
	525-lines M/NTSC NTSC3.58-5.5/6.0/6.5 NTSC4.43-5.5/6.0/6.5 PAL60	Sound output	12W×2
		Power supply	AC200V-240V 50Hz/60Hz
Channel coverage (Frequency range 48MHz-294MHz 470MHz-863MHz)	CCIR : E2~12, E21~69, 01~3, S1~10, S11~20 OIRT : R1~12, R21~69 JAPAN : J1~12, J13~62 U.S.A. : US2~13, J~W, US14~69 Hong Kong, U.K. : UK21~69 China : C1~12, C13~57 Australia : AU0~12, AU28~69	Power consumption	165W
		Weight (kg)	41.5
		Dimensions W×H×D (cm)	67.9×56.6×48.4
		Country of manufacture	Japan

※ Specifications are subject to change without notice to improve performance.

CONTROLS

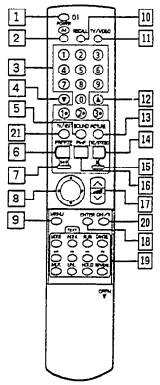


1	Power ON/OFF switch
2	Power/Stand-by indicater
3	TIMER indicater
4	AI indicater
5	AI receiver
6	Remote control receiver
7	AV IN terminals
8	Input select button
9	Volume up/down buttons
10	Program up/down buttons(▲, ▼)
11	Demonstration button



12	Antenna input terminal
13	AV IN/OUT terminals

REMOTE CONTROL TRANSMITTER

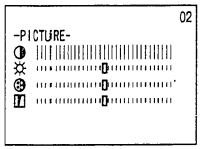


1	Power ON/OFF
2	AI
3	Program selector
4	Program down(CH▼)
5	Sound
6	Freeze
7	Surround
8	Cursor(▲, ▼, ◀, ▶)
9	Menu
10	Recall
11	Input select
12	Program up(CH▲)
13	Picture
14	Exchange/Strobo
15	Mute
16	P in P
17	Volume up/down
18	Enter
19	Teletext
20	CH I/II
21	TV/TEXT

ADJUSTMENT USING THE REMOTE CONTROL TRANSMITTER

Three adjustments, PAL-phase, sub-brightness and shoot balance, are performed using the remote control transmitter.

① Select the PICTURE screen using the MENU and ENTER buttons.



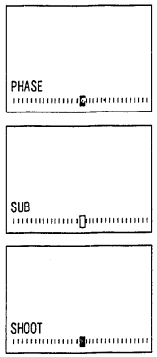
② Select the required adjustment item by the following operations.

(i)PAL-phase
Press the ⑤ button twice.

(ii)Sub-brightness
Press the ⑨ and ⑩ buttons.

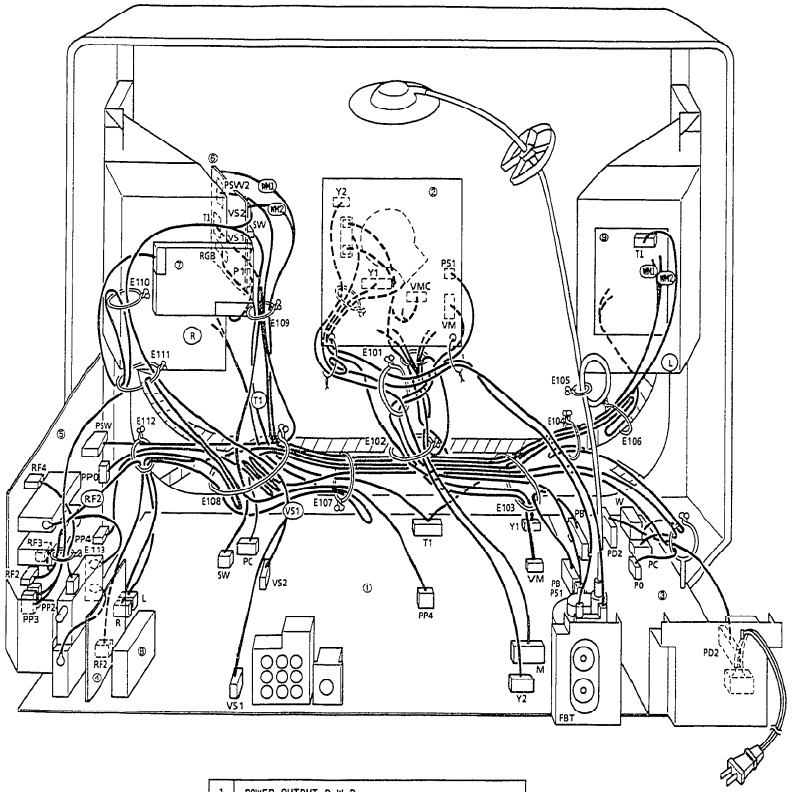
(iii)Shoot balance
Press the ⑧ and ⑦ buttons.

③ Adjust using the ◀/▶ cursor button.



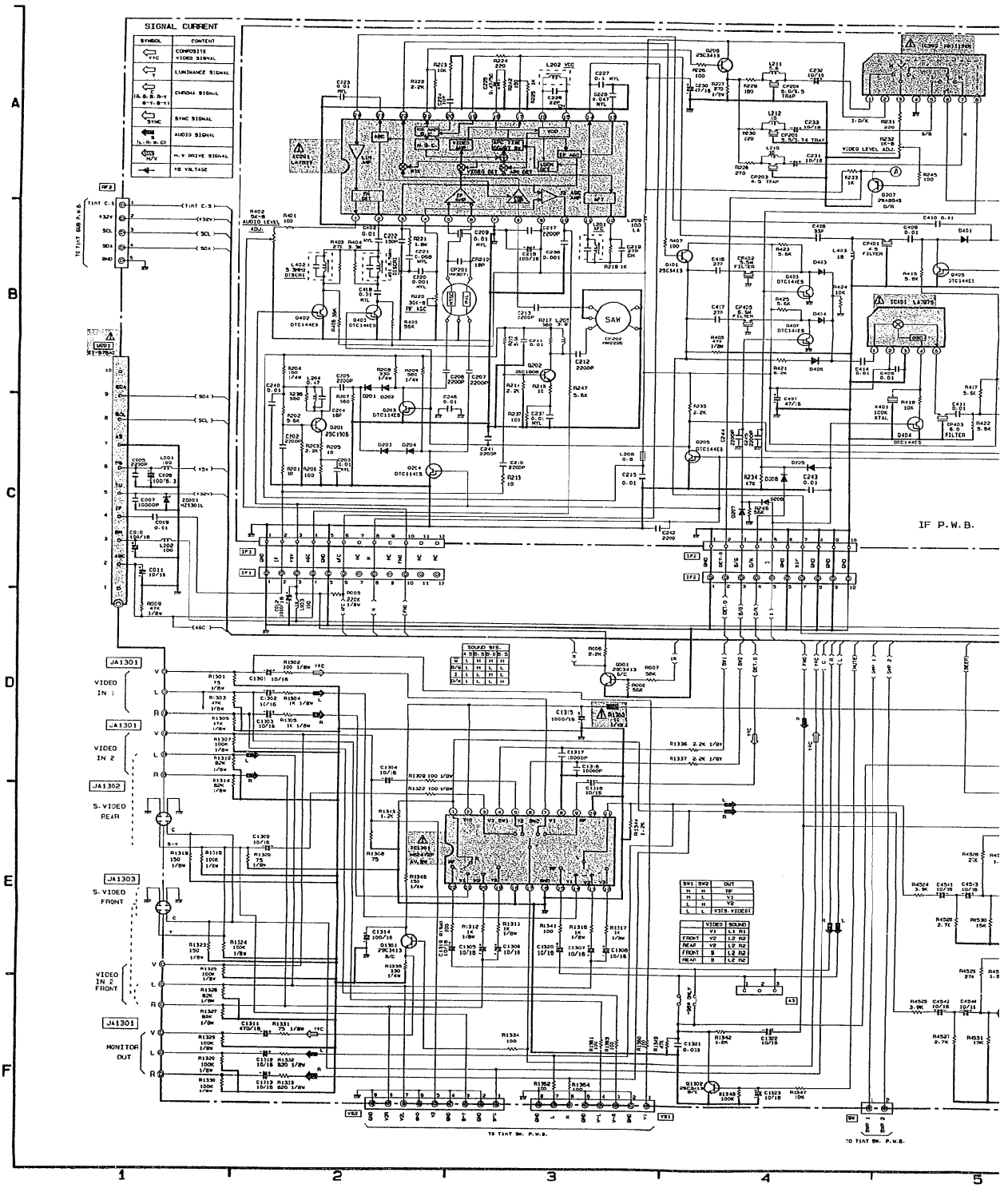
After the adjustment is completed, press the MENU button to return to the normal picture screen.

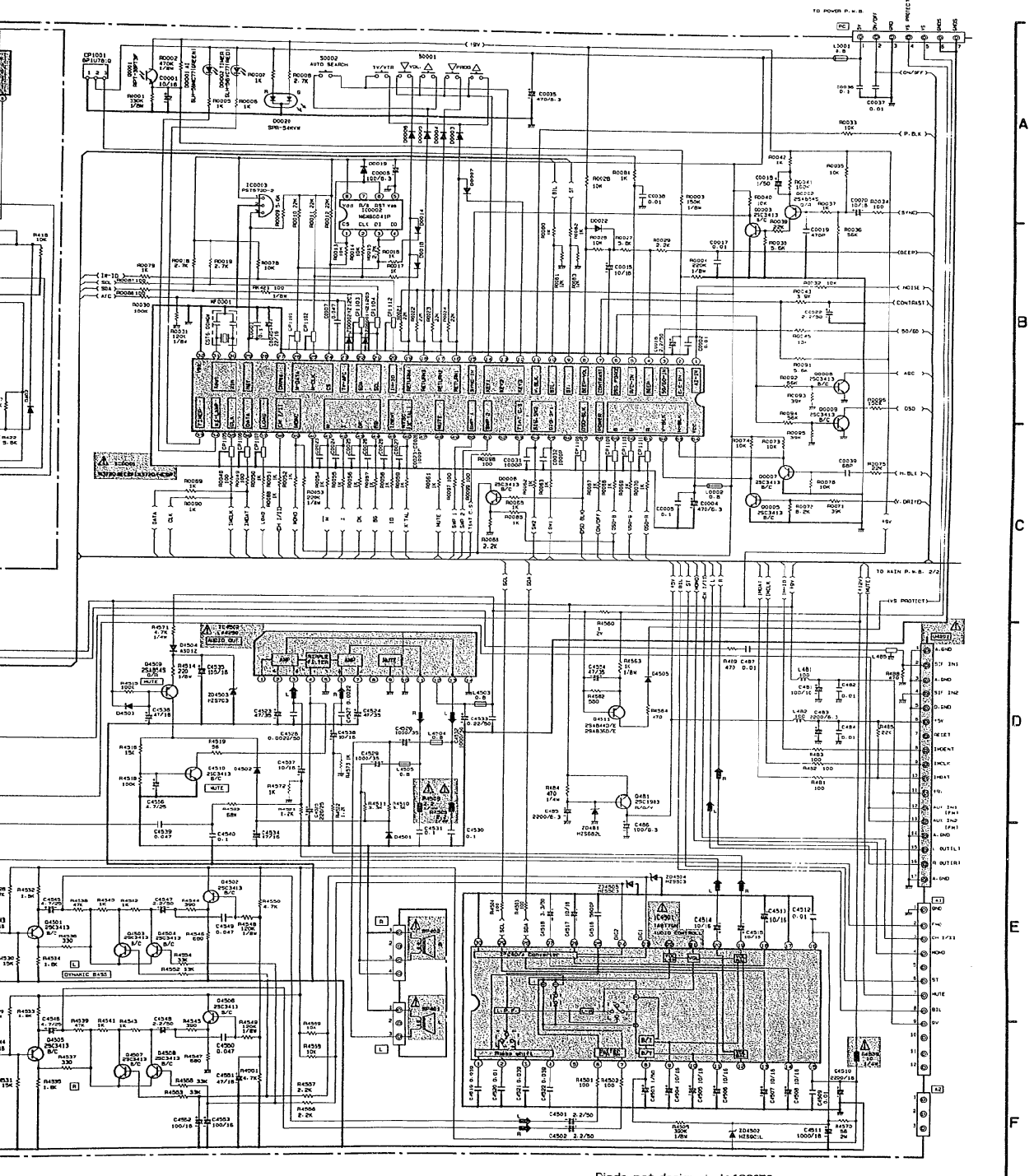
WIRING DIAGRAM



1	POWER OUTPUT P.W.B.
2	CPT P.W.B.
3	MAIN P.W.B.
4	IF P.W.B.
5	TinT SUB P.W.B.
6	TinT SWITCH P.W.B.
7	TinT unit
8	NICAM unit
9	TELETEXT P.W.B.

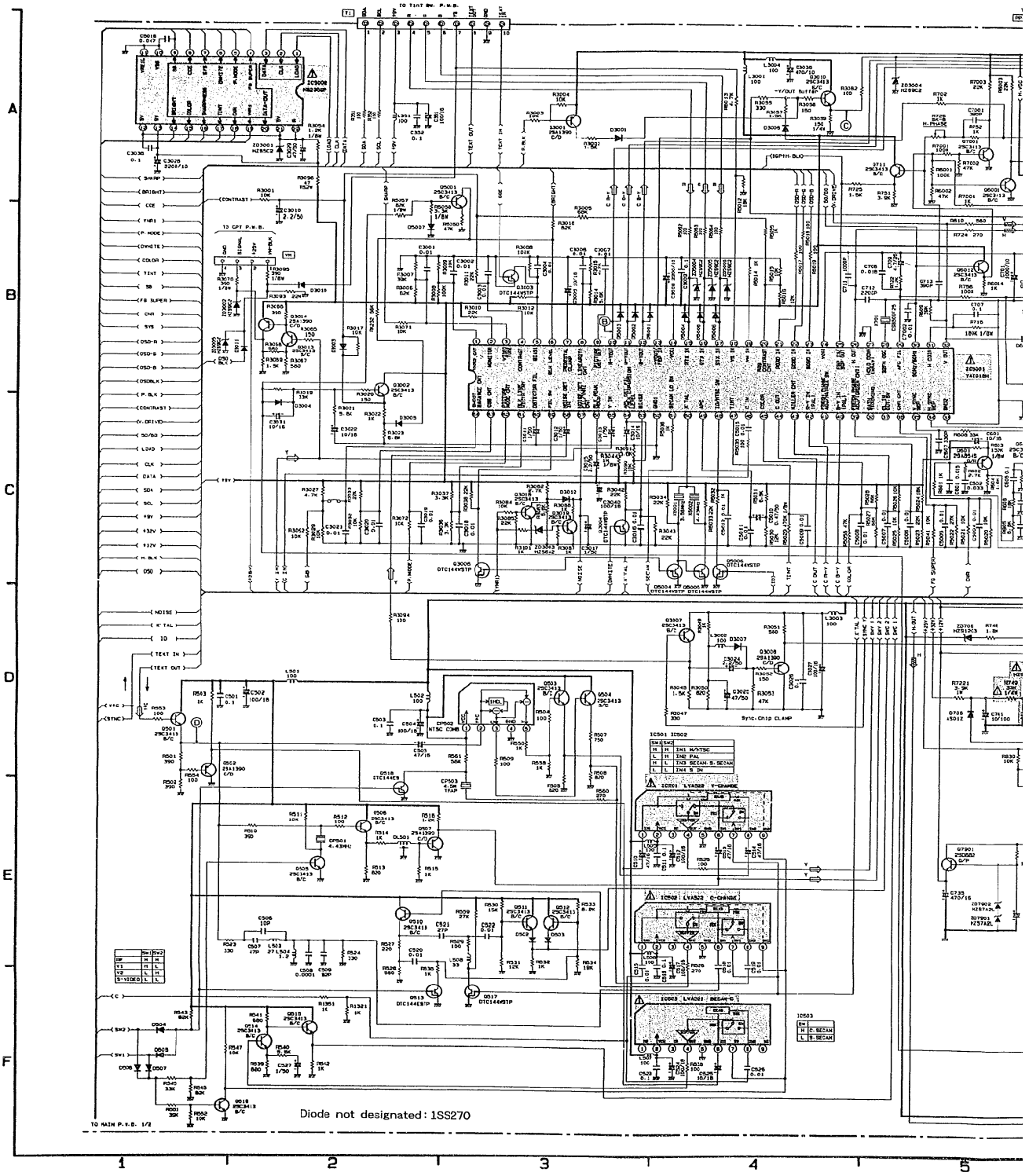
MAIN P.W.B. (1/2)/IF P.W.B.

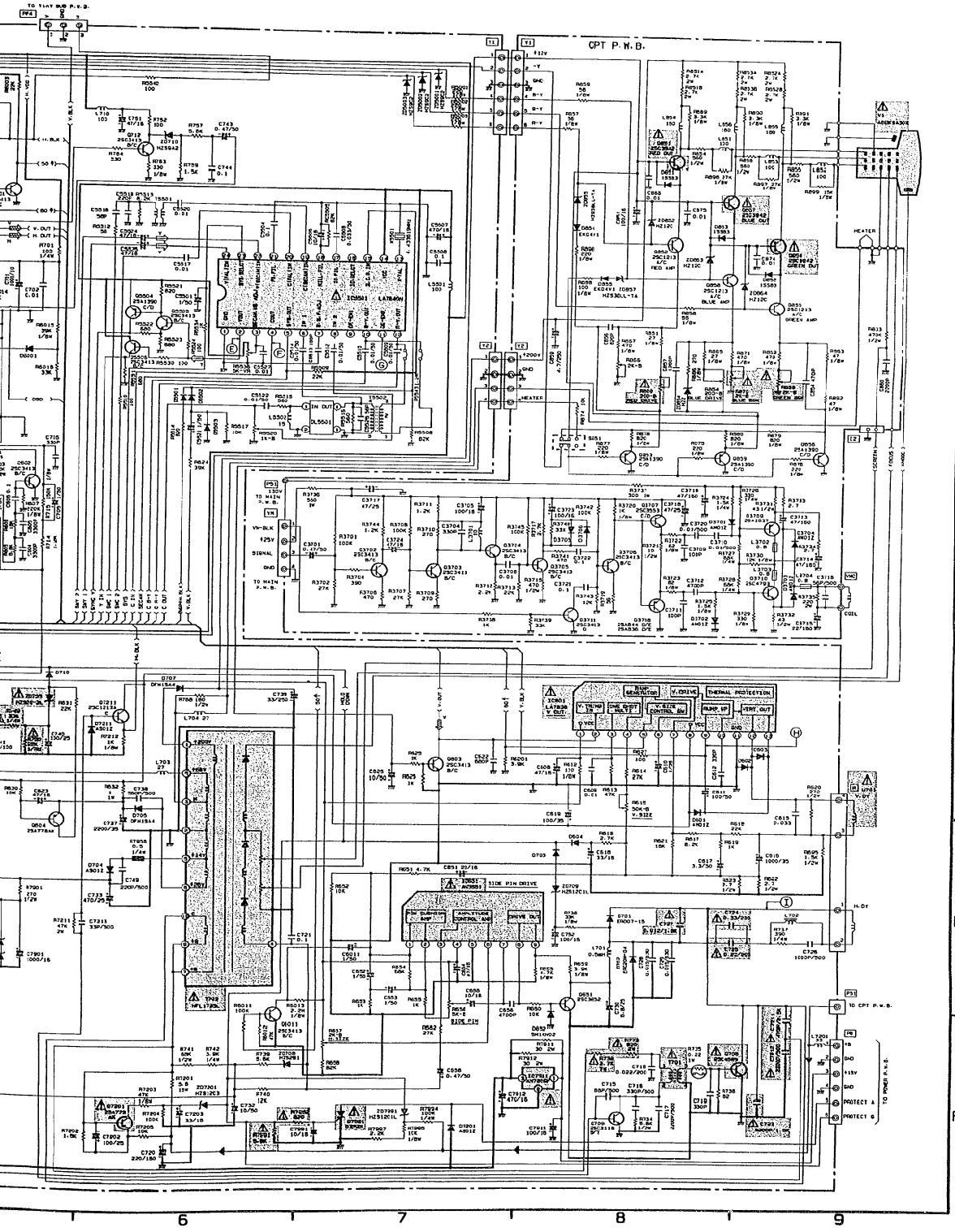




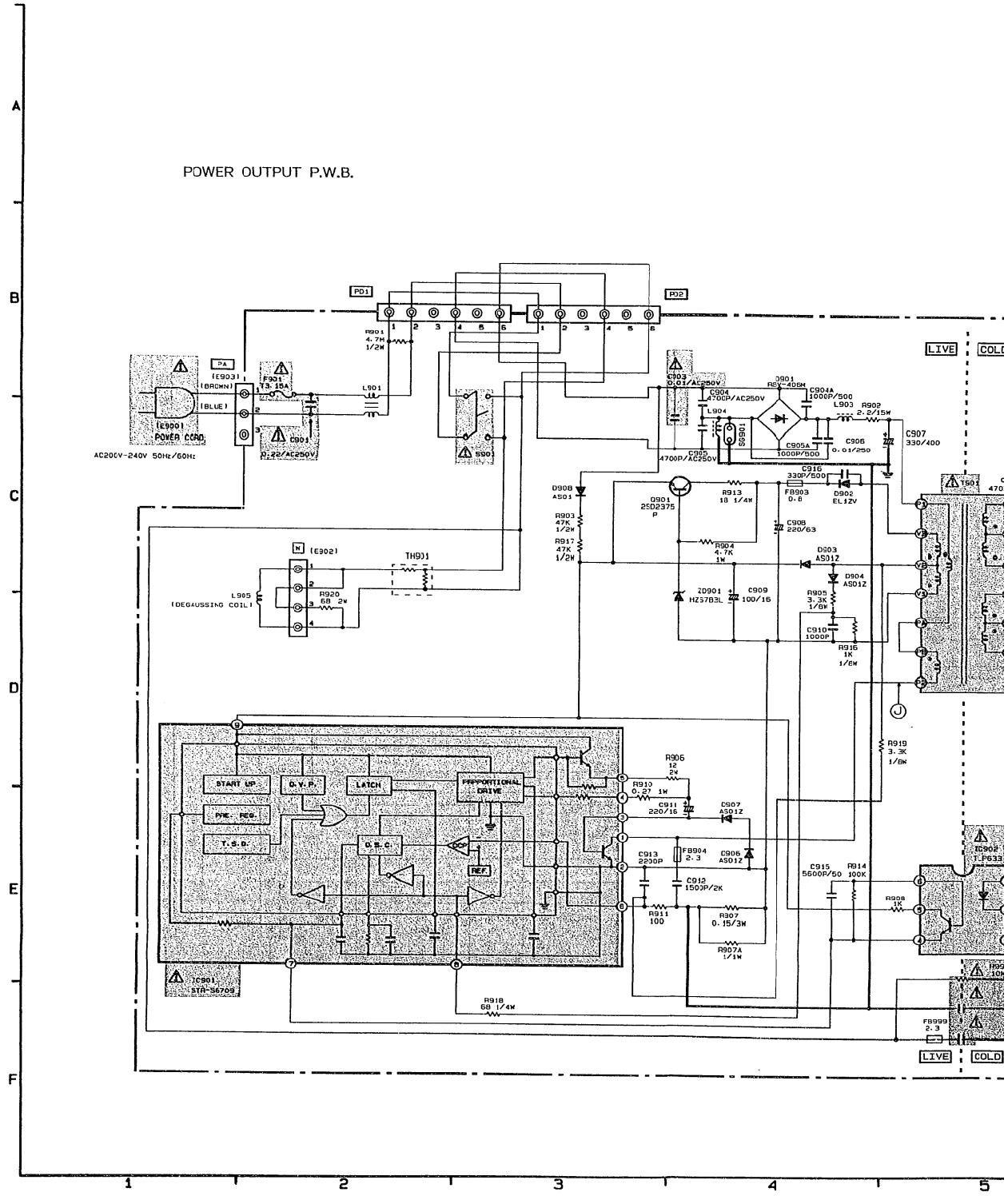
Diode not designated : 1SS270

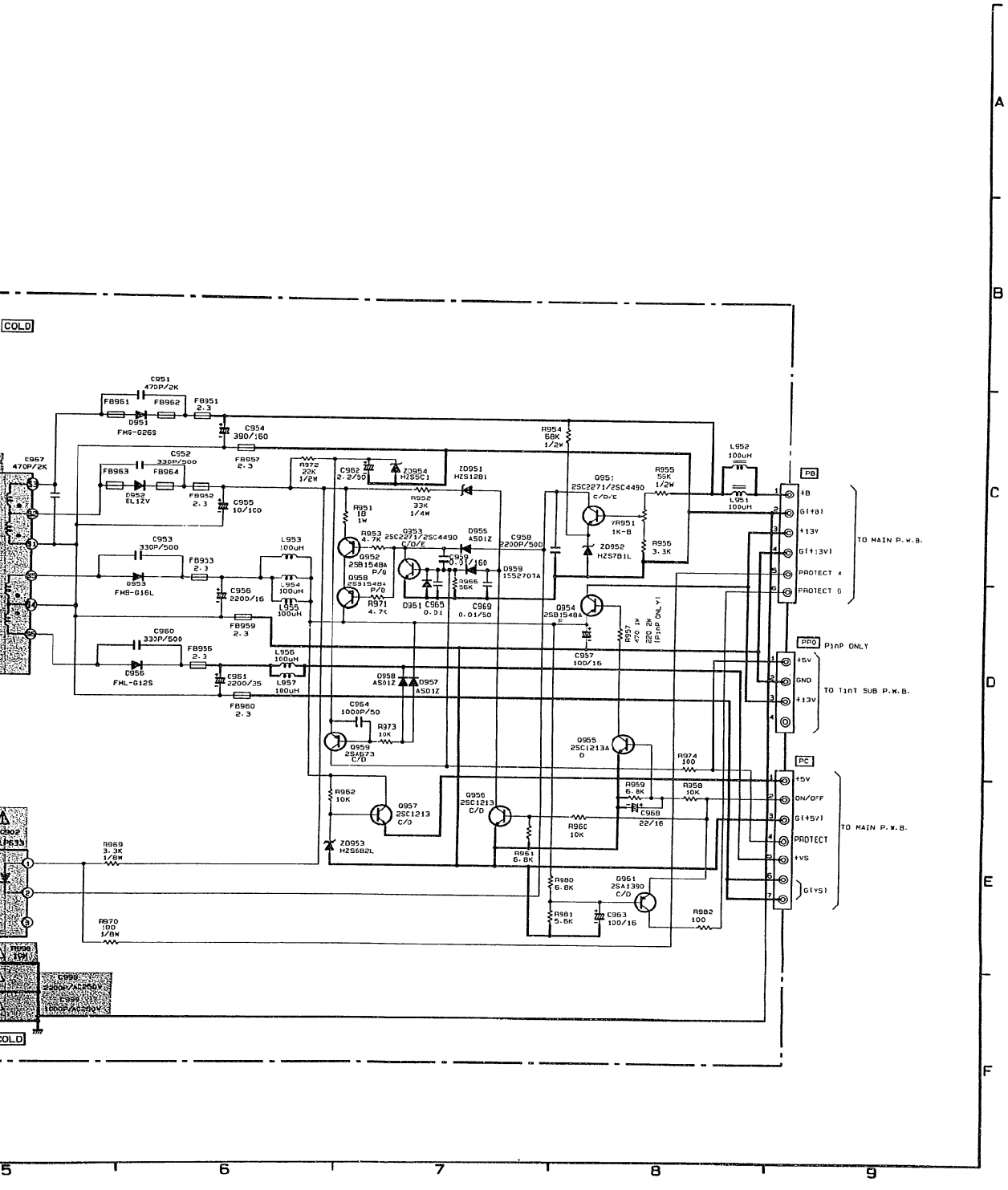
MAIN P.W.B. (2/2)/CPT P.W.B.



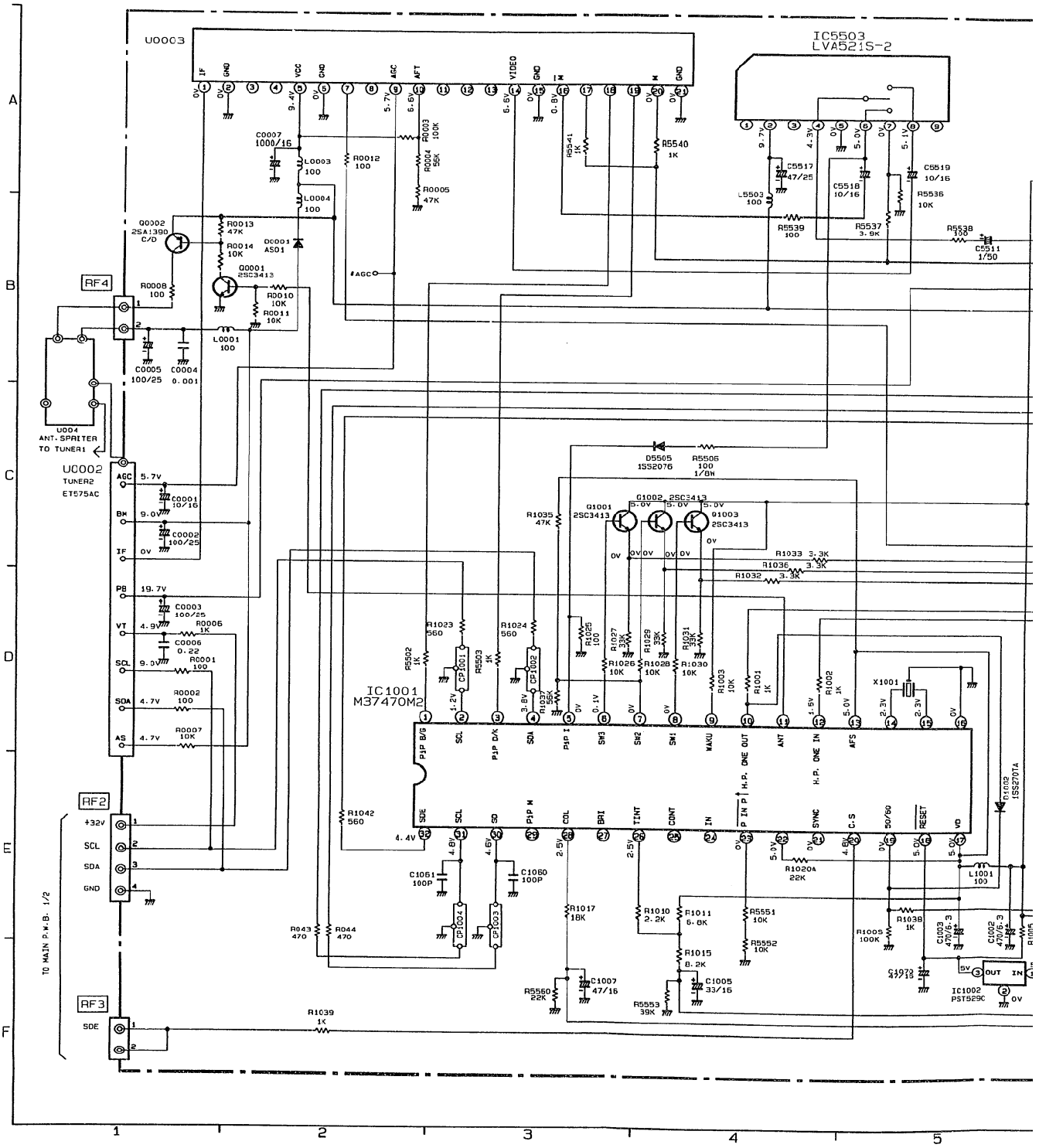

CPT P.W.B.
TO TINT SUB P.W.B.
TO MAIN P.W.B.
TO CPT P.W.B.
TO POWER P.W.B.
HEATER
COIL
H.DY
V.DY
A
B
C
D
E
F
6
7
8
9

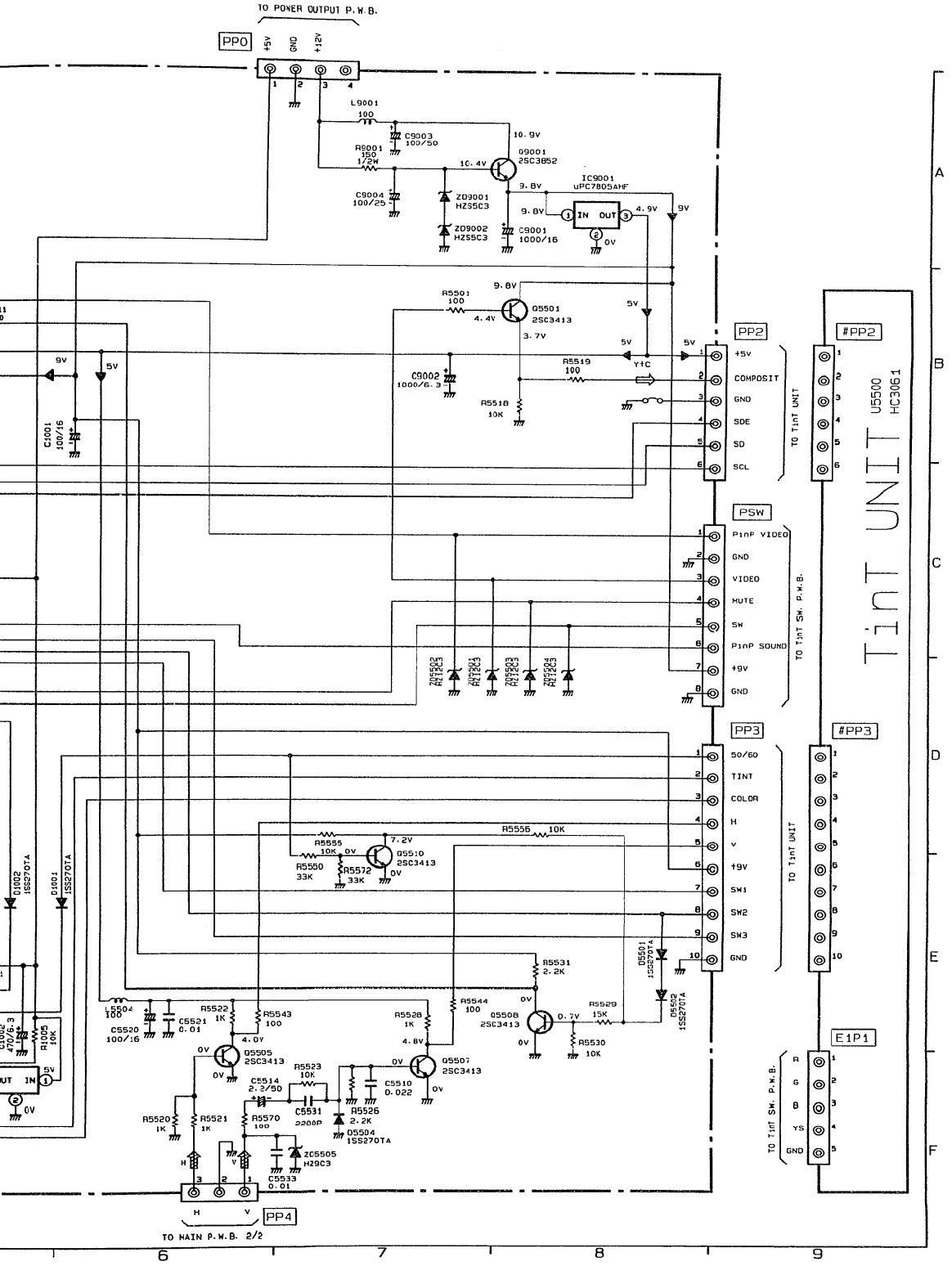
POWER OUTPUT P.W.B.



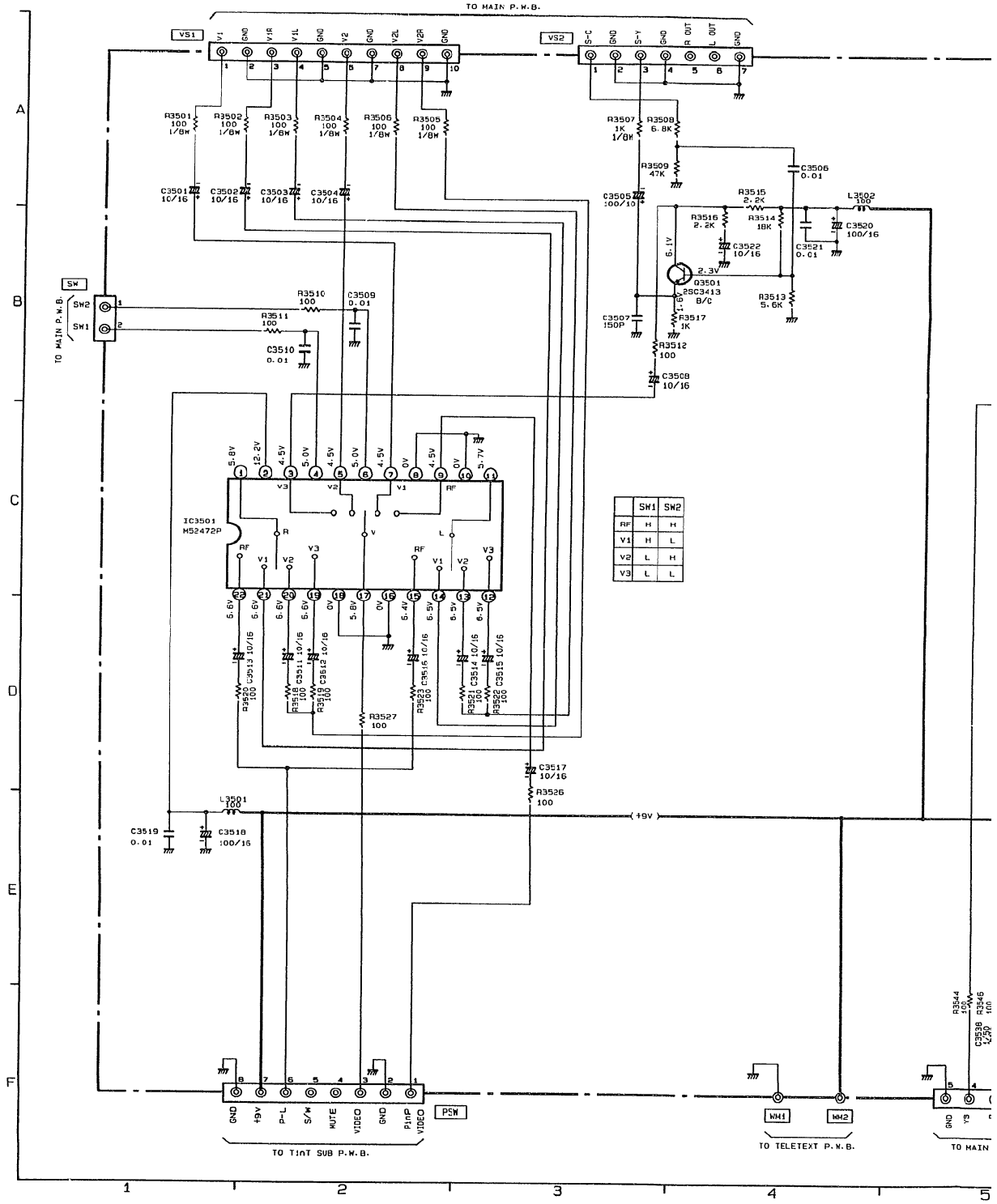

COLD
C951 470P/2K
FB961
FB962
FB951 2.3
D951 FMG-G26S
C954 390/160
FB957 2.3
C967 470P/2K
C952 330P/500
FB963
FB964
D952 EL12V
FB952 2.3
C955 10/100
C953 330P/500
FB953
D953 FMB-G16L
C956 2200/16
L954 100uH
L955 100uH
FB959 2.3
C960 330P/500
FB956 2.3
D956 FML-G12S
C961 2200/35
L956 100uH
L957 100uH
FB960 2.3
R972 22K 1/2W
C962 2.2/50
ZD954 HZS5C1
ZD951 HZS12B1
R952 33K 1/4W
R954 68K 1/2W
L952 100uH
L951 100uH
Q951 2SC2271/2SC4490 C/D/E
R955 55K 1/2W
VR951 1K-B
ZD952 HZS7B1L
R956 3.3K
R951 10 1W
R953 4.7K
Q953 2SC2271/2SC4490 C/D/E
D955 AS01Z
C958 2200P/500
Q952 2SB1548A P/Q
Q958 2SB1548A P/Q
C959 0.01/160
R966 36K
D959 1SS270TA
R971 4.7K
D961
C965 0.01
C969 0.01/50
Q954 2SB1548A E
R967 470 1W 220 2W (P-inP ONLY)
C957 100/16
D958 AS01Z
D957 AS01Z
C964 1000P/50
R973 10K
Q959 2SA673 C/D
Q955 2SC1213A D
R974 100
R959 6.8K
R958 10K
C968 22/16
R962 10K
Q957 2SC1213 C/D
Q956 2SC1213 C/D
R960 10K
R961 6.8K
ZD953 HZS6B2L
R969 3.3K 1/6W
R970 100 1/6W
R980 6.8K
Q961 2SA1390 C/D
R981 5.6K
C963 100/16
R982 100
PB
+B
G(+B)
+13V
G(+13V)
PROTECT A
PROTECT G
TO MAIN P.W.B.
PPO
P-inP ONLY
+5V
GND
+13V
TO TINT SUB P.W.B.
PC
+5V
ON/OFF
G(+5V)
PROTECT
+VS
G(VS)
TO MAIN P.W.B.
A
B
C
D
E
F
5
6
7
8
9

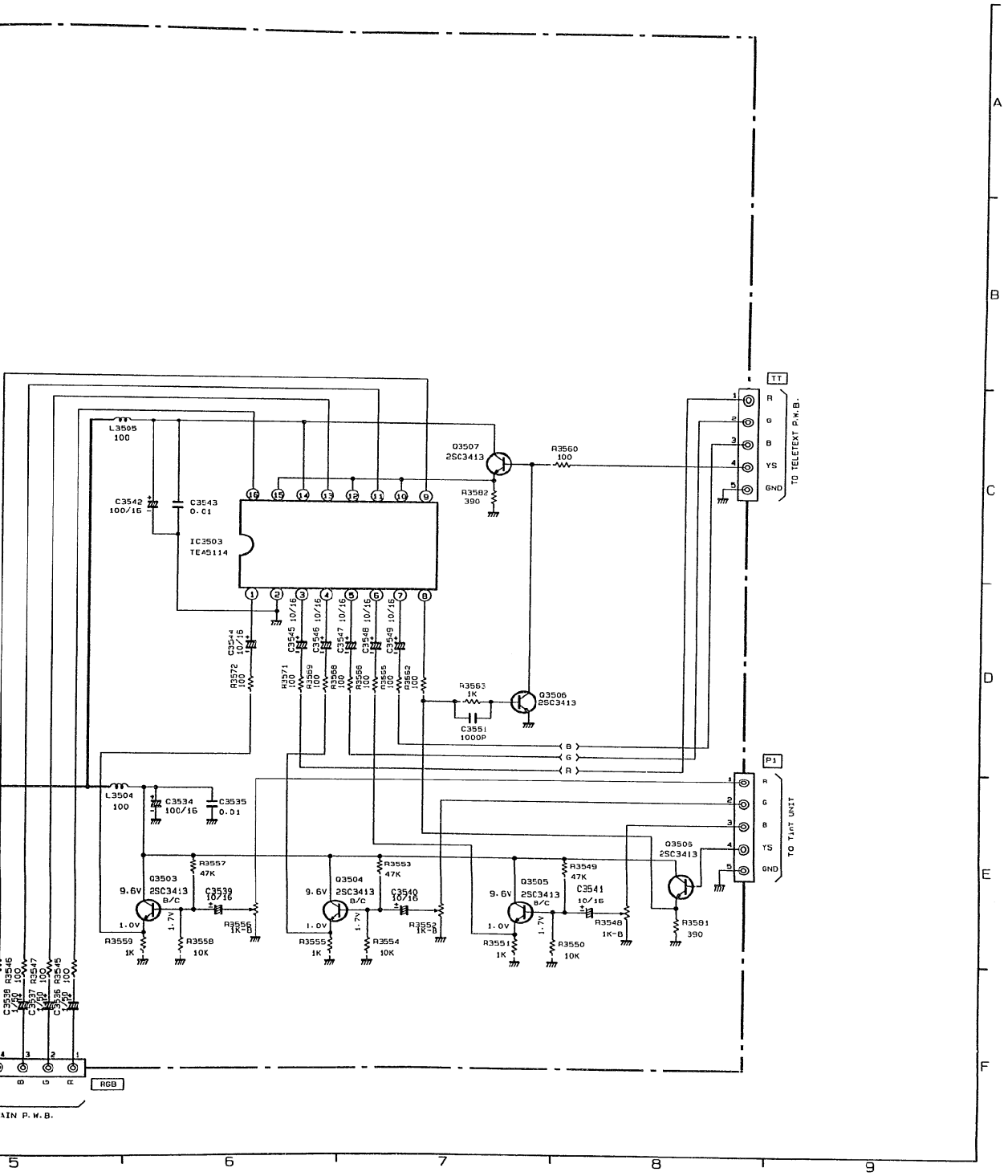
TinT SUB P.W.B.


U0003
IC5503
LVA521S-2
IC1001
M37470M2
U0002
TUNER2
ET575AC
U004
ANT. SPRITER
TO TUNER1
RF4
RF2
RF3
TO MAIN P.W.B. 1/2
Q0002
2SA1390
C/D
Q0001
2SC3413
D0001
AS01
Q1001
2SC3413
Q1002 2SC3413
Q1003
2SC3413
D5505
1SS2076
R5506
100
1/8W
R5540
1K
R5541
1K
C5517
47/25
C5518
10/16
C5519
10/16
R5536
10K
R5537
3.9K
R5538
100
C5511
1/50
R5539
100
L5503
100
C0007
1000/16
L0003
100
L0004
100
R0012
100
R0003
100K
R0004
56K
R0005
47K
R0013
47K
R0014
10K
R0008
100
R0010
10K
R0011
10K
L0001
100
C0005
100/25
C0004
0.001
#AGC
C0001
10/16
C0002
100/25
C0003
100/25
R0006
1K
C0006
0.22
R0001
100
R0002
100
R0007
10K
R1035
47K
R1033 3.3K
R1036 3.3K
R1032 3.3K
R1023
560
R1024
560
R1025
100
R1027
33K
R1029
33K
R1031
33K
R1026
10K
R1028
10K
R1030
10K
R1003
10K
R1001
1K
R1002
1K
R5502
1K
R5503
1K
CP1001
CP1002
R1037
33K
X1001
R1042
560
C1061
100P
C1060
100P
CP1004
CP1003
R043
470
R044
470
R1017
18K
R1010
2.2K
R1011
6.8K
R1015
8.2K
R5551
10K
R5552
10K
R5560
22K
C1007
47/16
C1005
33/16
R5553
39K
R1039
1K
R1020A
22K
L1001
100
R1038
1K
R1005
100K
C1003
470/6.3
C1002
470/6.3
C1079
47/16
IC1002
PST529C
OUT
IN
D1002
1SS270TA
P1P B/G
SCL
P1P D/A
SDA
P1P I
SM3
SM2
SM1
MAKU
ONE OUT
ANT
H.P. ONE IN
AFS
SDE
P1P M
COL
BRI
TINT
CONT
IN
P IN P
SYNC
C.S
50/60
RESET
VD
+32V
GND
A
B
C
D
E
F
1
2
3
4
5


TO POWER OUTPUT P.W.B.
PP0
+5V
GND
+12V
L9001
100
C9003
100/50
10.9V
R9001
150
1/2W
10.4V
Q9001
2SC3852
C9004
100/25
ZD9001
HZ55C3
ZD9002
HZ55C3
9.8V
IC9001
uPC7805AHF
IN
OUT
4.9V
9V
C9001
1000/16
0V
R5501
100
Q5501
2SC3413
4.4V
3.7V
5V
C9002
1000/6.3
R5519
100
R5518
10K
Y/C
PP2
+5V
COMPOSIT
GND
SDE
SD
SCL
TO TINT UNIT
#PP2
U5500
HC3061
TINT UNIT
PSW
PinP VIDEO
GND
VIDEO
MUTE
SW
PinP SOUND
+9V
GND
TO TINT SW. P.W.B.
ZD5502
HZ12C3
ZD5503
HZ12C3
ZD5504
HZ12C3
PP3
50/60
TINT
COLOR
H
V
+9V
SW1
SW2
SW3
GND
TO TINT UNIT
#PP3
R5555
10K
R5550
33K
R5572
33K
7.2V
Q5510
2SC3413
R5556
10K
R5531
2.2K
D5501
1SS270TA
D5502
1SS270TA
L5504
100
C5520
100/16
R5522
1K
C5521
0.01
R5543
100
4.0V
R5528
1K
4.8V
R5544
100
Q5508
2SC3413
0.7V
R5529
15K
R5530
10K
Q5505
2SC3413
R5523
10K
C5514
2.3/50
C5531
2200P
R5526
2.2K
D5504
1SS270TA
Q5507
2SC3413
C5510
0.022
R5520
1K
R5521
1K
R5570
100
ZC5505
H29C3
C5533
0.01
H
V
PP4
TO MAIN P.W.B. 2/2
E1P1
R
G
B
YS
GND
TO TINT SW. P.W.B.
A
B
C
D
E
F
6
7
8
9

TinT SWITCH P.W.B.




L3505
100
C3542
100/16
C3543
0.01
IC3503
TEA5114
Q3507
2SC3413
R3560
100
R3582
390
TT
R
G
B
YS
GND
TO TELETEXT P.W.B.
C3544
10/16
R3572
100
C3545
10/16
R3571
100
C3546
10/16
R3569
100
C3547
10/16
R3568
100
C3548
10/16
R3566
100
C3549
10/16
R3565
100
R3562
100
R3563
1K
Q3506
2SC3413
C3551
1000P
B
G
R
L3504
100
C3534
100/16
C3535
0.01
P1
R
G
B
YS
GND
TO TINT UNIT
Q3505
2SC3413
R3557
47K
Q3503
2SC3413
B/C
9.6V
C3539
10/16
1.0V
1.7V
R3556
1K-B
R3559
1K
R3558
10K
R3553
47K
Q3504
2SC3413
B/C
9.6V
C3540
10/16
1.0V
1.7V
R3552
1K-B
R3555
1K
R3554
10K
R3549
47K
Q3505
2SC3413
B/C
9.6V
C3541
10/16
1.0V
1.7V
R3548
1K-B
R3551
1K
R3550
10K
R3581
390
C3538 R3546
C3537 R3547
C3536 R3545
RGB
AIN P.W.B.
A
B
C
D
E
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MAIN P.W.B. (1/2)

IC0001

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
PAL	0.7	0.9	0.9	0	5.1	0.7	6.7	3.6	0	0	5.0	5.0	0.7	0.1	4.7	5.1	5.1	5.1	0	4.8	4.9	4.9	3.5	5.1	5.1	5.1	0	5.1	5.1	2.2	2.4	0
SECAM	0.7	0.9	0.9	0	5.1	5.1	8.3	3.6	0	0	5.0	5.0	0.7	0.2	4.7	5.1	5.1	5.1	0	4.8	4.9	4.9	3.5	5.1	5.1	5.1	0	5.1	5.1	2.2	2.4	0
NTSC	0.7	0.8	4.3	0	5.1	0	8.3	3.6	0	0	4.9	5.0	0.7	0.1	4.7	5.1	5.1	5.1	1.6	4.8	4.9	4.9	3.5	5.1	5.1	5.1	0	5.1	5.1	2.2	2.4	0

Pin No.	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
PAL	5.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.1	5.1	0	0	5.0	0	0	0	0	4.7	5.1	
SECAM	5.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.1	5.1	0	0	5.0	0	0	0	0	4.7	5.1	
NTSC	5.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.1	5.1	0	0	5.0	0	0	0	0	4.7	5.1	

IC0002

Pin No.	1	2	3	4	5	6	7	8
PAL	5.1	5.1	5.1	5.1	0	5.1	5.1	5.1
SECAM	5.1	5.1	5.1	5.1	0	5.1	5.1	5.1
NTSC	5.1	5.1	5.1	5.1	0	5.1	5.1	5.1

IC0003

Pin No.	1	2	3
PAL	5.1	5.1	5.1
SECAM	6	0	0
NTSC	5.1	5.1	5.1

IC1301

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
PAL	5.8	12.2	4.5	5.0	4.5	5.0	4.5	0	4.5	0	5.7	6.5	6.5	6.4	0	5.8	0	6.6	6.6	6.6	6.6	6.6
SECAM	5.8	12.2	4.5	5.0	4.5	5.0	4.5	0	4.5	0	5.7	6.5	6.5	6.4	0	5.8	0	6.6	6.6	6.6	6.6	6.6
NTSC	5.8	12.2	4.5	5.0	4.5	5.0	4.5	0	4.5	0	5.7	6.5	6.5	6.4	0	5.8	0	6.6	6.6	6.6	6.6	6.6

IC4501

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
PAL	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	1.7	4.5	4.4	4.5	0	1.3	1.8	11.9	9.2	0	4.5	5.2	1.7	5.3	5.3	0.1	9.2	4.6	6.1	1.9	4.1	5.0	0
SECAM	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	1.7	4.5	4.4	4.5	0	1.3	1.8	11.9	9.2	0	4.5	5.2	1.7	5.3	5.3	0.1	9.2	4.6	6.1	1.9	4.1	5.0	0
NTSC	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	1.7	4.5	4.4	4.5	0	1.3	1.8	11.9	9.2	0	4.5	5.2	1.7	5.3	5.3	0.1	9.2	4.6	6.1	1.9	4.1	5.0	0

IC4502

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PAL	0.8	1.0	0.7	11.2	0	0.7	1.0	0.8	0	0	11.4	9.0	11.1	0
SECAM	0.8	1.0	0.7	11.1	0	0.7	1.0	0.8	0	0	11.4	9.0	11.1	0
NTSC	0.8	1.0	0.7	11.1	3	0.7	1.0	0.8	0	0	11.4	9.0	11.0	0

IC7911

Pin No.	1	2	3
PAL	12.3	0	9.1
SECAM	12.4	0	9.1
NTSC	12.3	0	9.1

Q0008			Q0001			Q0002			Q0003		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
0 5.1	0 5.1	0 5.1	0 6.7	0.1	0 6.7	0.1	0 6.5	0 7.7	0.4	7.4	7.7	0.4	7.4	7.7	0.4	7.3	0.1	6.8	0	0.1	6.8	0	0.1	6.8	0

Q0005			Q0007			Q1301			Q1302		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
0 0.2	0 0.6	0.7	0 0.6	0.7	0	3	8.7	0	0	4.7	0	0	6.3	0	5.8	9.9	5.1	5.8	9.6	5.1	5.8	9.9	5.1	0	0	0	0	0	0	0

Q4501			Q4502			Q4503			Q4504		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
4.1	8.6	3.5	4.1	8.6	3.5	4.1	8.6	3.5	4.1	11.8	2.9	3.5	11.7	2.9	3.5	11.8	2.9	0.1	3.5	3.5	0.1	1.5	3.5	0.1	3.5	3.5	4	1	3.5	3.5	4	1	3.5	3.5	4	1	3.5	3.5

Q4505			Q4506			Q4507			Q4508		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
4.1	8.6	3.5	4.1	8.6	3.5	4.1	11.8	2.9	3.5	11.8	2.9	0.1	3.5	3.5	0.1	1.5	3.5	0.1	3.5	3.5	4	1	2.5	2.5	4	1	2.5	2.5	4	1	3.5	3.5

Q4509			Q4510			Q4511			Q481		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
9.0	0	7.7	3.0	0	7.7	9.0	3	7.7	0	11.2	0	0	11.2	0	0	11.2	0	0	36.1	0	0	0.5	35.0	0.5	0	36.9	0.5	0	36.9	0.5	0	9.4	5.9	5.3	9.0	0.5	0	5.3	9.0	0.5	0	6.9

MAIN P.W.B. (2/2)

IC5001

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
PAL	1.5	3.9	7.0	6.4	0	4.5	6.8	4.1	1.5	5.2	5.2	5.1	4.3	3.9	2.8	2.8	2.8	0.1	0	4.5	0	0	0	7.6	1.0	0.5	0	4.8	5.4	0.8	6.7	4.5
SECAM	1.5	3.9	7.0	6.5	0	4.5	6.8	4.1	1.5	5.2	5.2	5.1	4.4	4.9	2.8	2.8	2.8	0.1	0	4.5	0	0	0	7.6	1.0	0.5	0	4.8	5.4	0.8	6.6	4.5
NTSC	1.5	3.9	7.0	6.5	0	4.5	6.8	4.1	0.9	5.2	5.2	5.2	4.3	3.9	2.8	2.8	2.8	0.1	0	4.5	0	0	0	7.6	1.0	0.5	0	4.8	5.4	4.3	6.7	4.5

Pin No.	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
PAL	0	8.9	6.3	4.6	0	3.4	0.7	3.0	4.7	3.0	4.1	5.3	4.3	3.2	4.1	5.4	5.7	5.3	2.5	0	0	3.3	3.8	6.0	5.5	3.7	7.3	4.5	4.8	3.2	3.0	5.1
SECAM	0	6.8	6.3	4.6	0	3.4	0.7	3.0	4.7	3.0	4.1	5.3	4.3	3.2	4.1	5.4	5.7	5.3	0	0	0	3.3	3.7	6.0	5.5	3.7	7.3	4.5	4.5	8.2	3.0	5.1
NTSC	0	6.9	6.3	4.6	0	3.4	0.7	3.0	4.7	3.0	4.1	5.3	4.3	3.2	3.8	6.8	0.7	5.7	5.3	2.5	0	0	3.3	3.8	6.0	5.5	3.7	7.3	4.4	4.4	8.2	3.0	5.1

IC5002

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	21	21	22
PAL	0	—	—	—	0	8.9	8.9	4.8	8.9	2.0	0	0	5.1	8.9	1.8	8.9	8.9	2.1	8.9	0.1	—	5.1	5.1
SECAM	0	—	—	—	0	8.9	8.9	4.8	8.9	2.0	0	0	5.1	8.9	1.8	8.9	8.9	2.1	8.9	0.1	—	5.1	5.1
NTSC	0	—	—	—	0	8.9	8.9	4.8	8.9	2.0	0	0	5.1	8.9	1.8	8.9	8.9	9.7	8.9	0.1	—	5.1	5.1

IC5501

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
PAL	0	0	5.7	4.5	2.6	4.5	0.2	4.5	6.5	7.6	0.4	7.6	2.9	5.9	1.2	2.8	0.8	5.0	4.4	4.1	5.9	4.5	8.8	4.5
SECAM	0	4.5	5.7	4.5	0.1	4.5	0.2	4.5	6.5	7.6	0.4	7.6	2.9	5.9	1.2	2.8	0.8	5.0	4.4	4.1	5.9	4.5	8.8	4.5
NTSC	0	4.5	5.7	4.5	2.1	4.5	0.2	4.5	6.5	7.6	0.4	7.6	2.9	5.9	1.1	2.7	0.8	4.6	4.5	4.1	5.9	4.5	8.8	4.5

IC502

Pin No.	1	2	3	4	5	6	7	8	9
PAL	4.7	9.0	0	8.0	0	4.7	0	4.7	0.1
SECAM	4.7	9.0	0	8.0	0	4.7	0	4.7	0.1
NTSC	4.7	9.0	0	8.0	0	4.7	4.3	4.7	0.1

IC503

Pin No.	1	2	3	4	5	6	7	8	9
PAL	0	9.0	0	8.0	0	4.7	0	4.7	0
SECAM	0	9.0	0	8.0	0	4.7	0	4.7	0
NTSC	0	9.0	0	8.0	0	4.7	0	4.7	0

IC651

Pin No.	1	2	3	4	5	6	7	8	9
PAL	1.0	6.7	7.2	12.7	0	12.4	11.8	2.3	12.2
SECAM	1.0	6.7	7.2	12.7	0	12.4	11.8	2.3	12.2
NTSC	1.0	6.7	7.2	12.7	0	12.4	11.8	2.3	12.2

Q3001			Q3002			Q3003					
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC			
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E			
0 0	0 0	0 0	0 0	7.4	8.9	6.4	7.7	0	0	6.5	7.2	6.5	6.5	1.9	0	0	8.9	0	0	8.9	0	0

Q3004			Q3005			Q3006			Q3007		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
8.9 0	0	8.9	0	6	8.9	0	0	0	0	0	0	0	4.3	0	0	1.1	8.9	6.4	7.1	8.9	6.4	7.1	8.9	6.4

Q3008			Q3010			Q3013		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
4.5 0	5.1	4.4	0	5.0	4.5	0	5.1	4.7	5.0	3.5	4.2	3.9	0.3	5.4	2.9	0.2	3.5	1.8	5.2	3.1	3.5	8.3	5.3	1.4	8.5	3.3	0.1

Q3014			Q3018			Q3019			Q5004			Q5005			Q5006		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
8.3	5.3	8.8	8.3	5.3	8.8	8.3	5.2	8.8	0.7	0	0	0.7	0	0	0.7	0	0	0.8	0	0	0.8	0	0	0.4	0	0	0.4	0	0	0.4	0	0

Q5504			Q5505			Q5506			Q501			Q502			Q503		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
8.3	7.1	8.8	8.3	7.1	8.8	8.3	7.1	8.8	9.4	5.8	3.6	4.5	1.8	4.5	8.3	3.6	4.5	8.3	3.5	4.5	6.1	3.6	4.5	8.3	5.8	8.9	5.1	5.8	9.0	5.1	2.6	0	3.2	2.6	0	3.2	2.6	0	3.2	1.7	9.0	2.0	2.7	9.

Q504			Q505			Q506			Q507			Q508			Q509		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
5.6	9.0	4.3	5.0	8.0	4.0	4.9	5.6	9.0	4.9	0.7	0.1	0	0.7	0.1	0	0.7	0.1	0	5.1	9.0	4.4	4.5	1.8	0.4	4.4	5.1	9.0	4.4	4.5	1.9	0.4	4.2	2.2	0	2.8	2.2	0	2.8	3.7	8.4	2.1	3.7	8.4	3.1	4.4	5.2	9.0	8.4	5.

Q510			Q511			Q512			Q513			Q514			Q515		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
4.0	9.0	3.3	4.0	8.0	3.3	4.0	9.0	3.3	4.0	9.0	3.3	1.5	0.9	0.1	1.4	0.9	0.1	1.3	0	0.9	0.1	2.0	2.5	0.1	0	2.5	0.1	0	2.5	0.1	0	4.4	5.1	3.3	4.0	5.1	3.3	4.0	5.1	3.7	5.0	5.0	5.7	8.

Q516			Q517			Q6001			Q6011			Q6012			Q601		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
0.7	0.1	0	0.7	0.1	0	0	0.7	0.1	0	0	0	0.9	0	0	4.3	0	0	2.1	7.5	0	0.1	7.5	0	2.7	0.1	0	0.6	2	0	0.6	0	0	0	10.1	0	0.8	8.9	0.2	0.8	8.9	0.2	4.3	6.9	3.6	5.1	0.1	5.2	5.0	0.

Q902			Q603			Q604			Q651			Q7201			Q7201		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
-0.1	0.2	0	-0.3	6.3	9	-0.2	6.2	0	0	4.5	0	0	4.5	0	4.5	0	25.1	0.4	25.5	25.1	0.5	25.5	25.1	0.4	25.5	0.5	12.4	0	0.5	12.4	0	0.5	12.3	0	0.1	8.8	0	0.1	8.8	0	0.3	-2.3	0	2.4	40.0	2.0	0.5	0	41

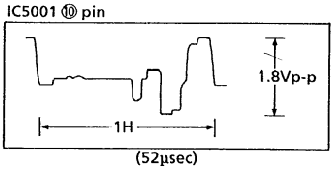
Q7211			Q7901			Q7991			Q706			Q709			Q711		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	K A G	K A G	K A G	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
1.9	12.5	2.2	1.9	12.5	2.2	1.9	12.6	2.3	3.3	14.3	12.7	13.3	14.3	12.7	13.3	14.3	12.7	13.3	14.3	12.7	0	15.4	0.1	0	15.4	0.1	0	15.3	0.1	-0.1	5.6	0	-0.1	0.10	0	0.4	12.6	0	0.4	12.7	0	0.4	2.6	0	1.9	8.9	1.1	1.8	8.5

Q712		
PAL	SECAM	NTSC
B C E	B C E	B C E
4.1	7.9	3.4	4.1	7.9	3.4	4.1	7.9	3.4

CPT P.W.B.(MAIN P.W.B. (2/2))

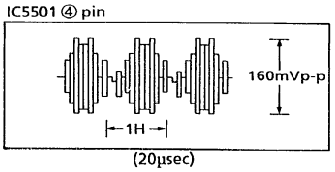
Q3702			Q3703			Q3704			Q3705			Q3706			Q3707		
PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC	PAL	SECAM	NTSC
B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E	B C E
2.3	8.1	1.7	2.3	8.1	1.7	2.3	8.1	1.7	5.8	1.5	2.1	5.7	1.5	2.1	5.8	1.5	2.1	5.7	12.4	5.1	5.7	12.3	5.1	1.8	12.4	5.2	2.0	4.9	1.3	2.3	4.9	1.1	2.0	4.9	1.2	1.0	6.2	0.3	1.0	6.2	0.3	1.0	6.2	0.3

IC5001 ⑩ pin



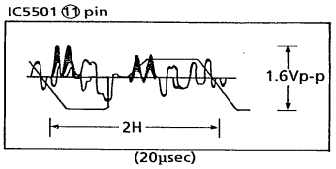
(52µsec)

IC5501 ④ pin



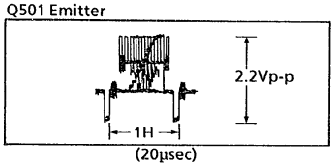
(20µsec)

IC5501 ⑪ pin



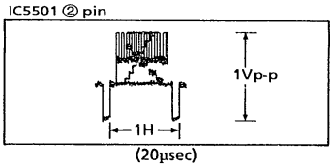
(20µsec)

Q501 Emitter



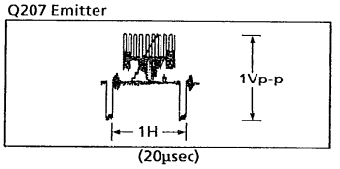
(20µsec)

IC5501 ② pin



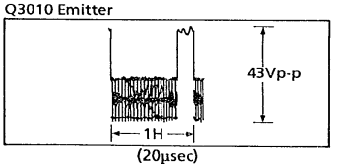
(20µsec)

Q207 Emitter



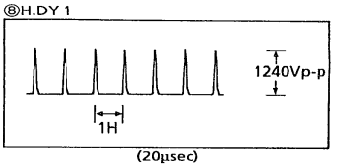
(20µsec)

Q3010 Emitter



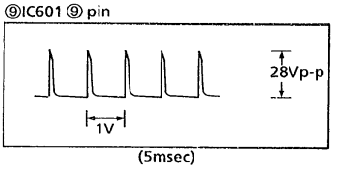
(20µsec)

⑧H.DY 1



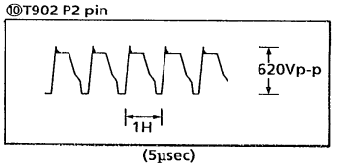
(20µsec)

⑨IC601 ⑨ pin

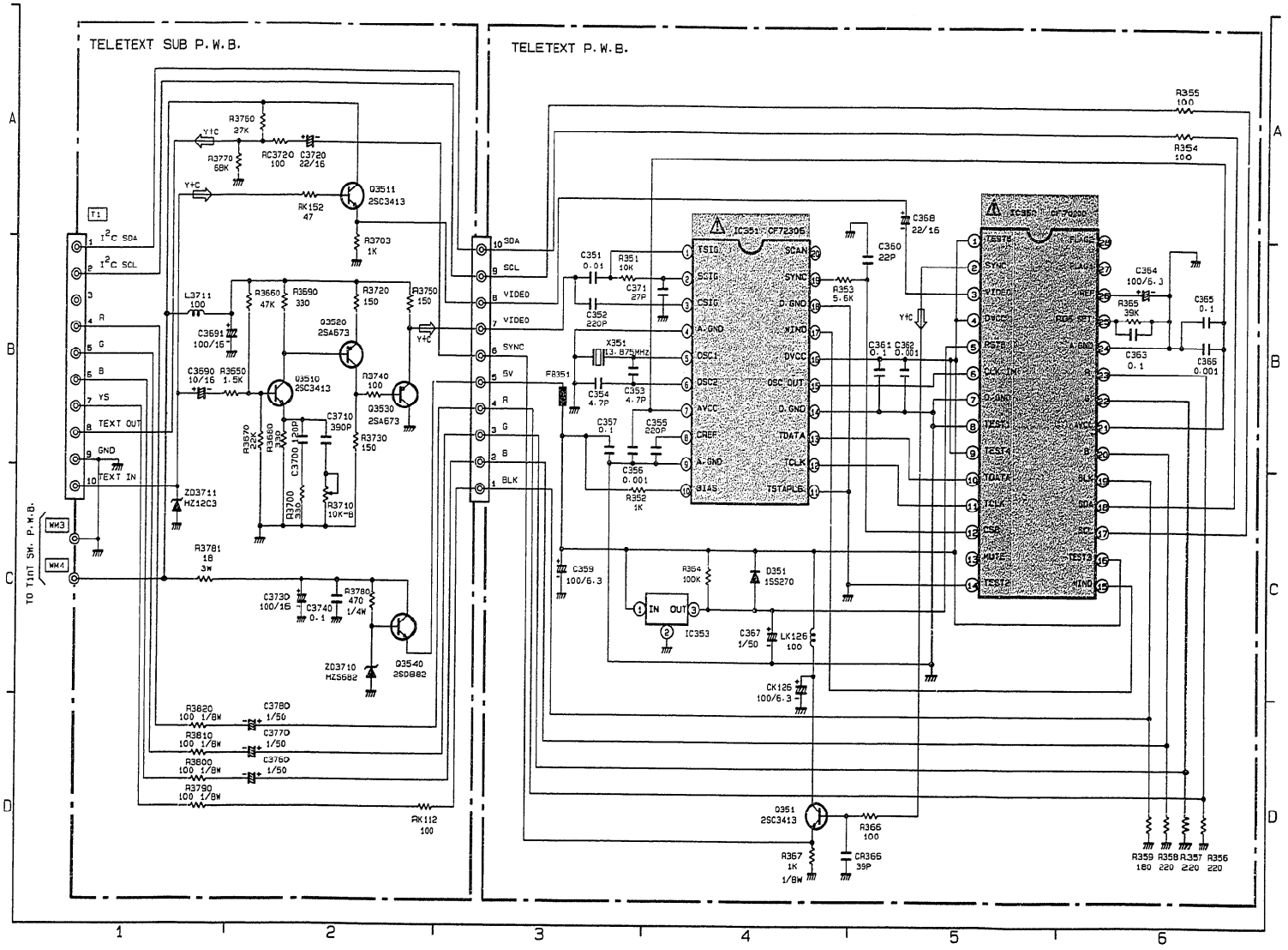


(5msec)

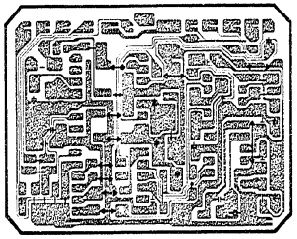
⑩T902 P2 pin



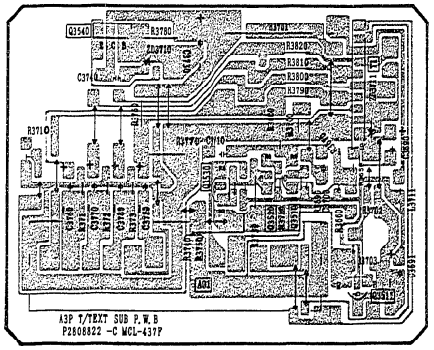
(5µsec)


TELETEXT SUB P.W.B.
TELETEXT P.W.B.
TO Tint SW. P.W.B.
T1
I²C SDA
I²C SCL
R
G
B
YS
TEXT OUT
GND
TEXT IN
WH3
WH4
VIDEO
SYNC
5V
BLK
SDA
SCL
Y+C
IC351 CF72305
IC352 CF7220S
IC353
X351 13.875MHz
Q3511 2SC3413
Q3520 2SA673
Q3530 2SA673
Q3540 2SD882
Q351 2SC3413
D351 1SS270
ZD3711 HZ12C3
ZD3710 HZS6B2
FB351
LK126
CK126
RK152 47
RK112 100
R3760 27K
R3770 68K
RC3720 100
C3720 22/16
R3703 1K
L3711 100
R3660 47K
R3690 330
R3720 150
R3750 150
C3691 100/16
C3690 10/16
R3650 1.5K
R3740 100
R3730 150
C3710 390P
R3670 22K
R3680 22K
R3700 330
C3700 120P
R3710 10K-B
R3781 18 3W
C3730 100/16
C3740 0.1
R3780 470 1/4W
R3820 100 1/8W
R3810 100 1/8W
R3800 100 1/8W
R3790 100 1/8W
C3780 1/50
C3770 1/50
C3760 1/50
C351 0.01
R351 10K
C371 27P
C352 220P
C353 4.7P
C354 4.7P
C357 0.1
C355 220P
C356 0.001
R352 1K
C359 100/6.3
R354 100K
C367 1/50
CK126 100/6.3
C360 22P
R353 5.6K
C361 0.1
C362 0.001
C368 22/16
R355 100
R354 100
C364 100/6.3
R365 39K
C365 0.1
C363 0.1
C365 0.001
R366 100
CA366 39P
R367 1K 1/8W
R359 180
R358 220
R357 220
R356 220
A
B
C
D
1
2
3
4
5
6

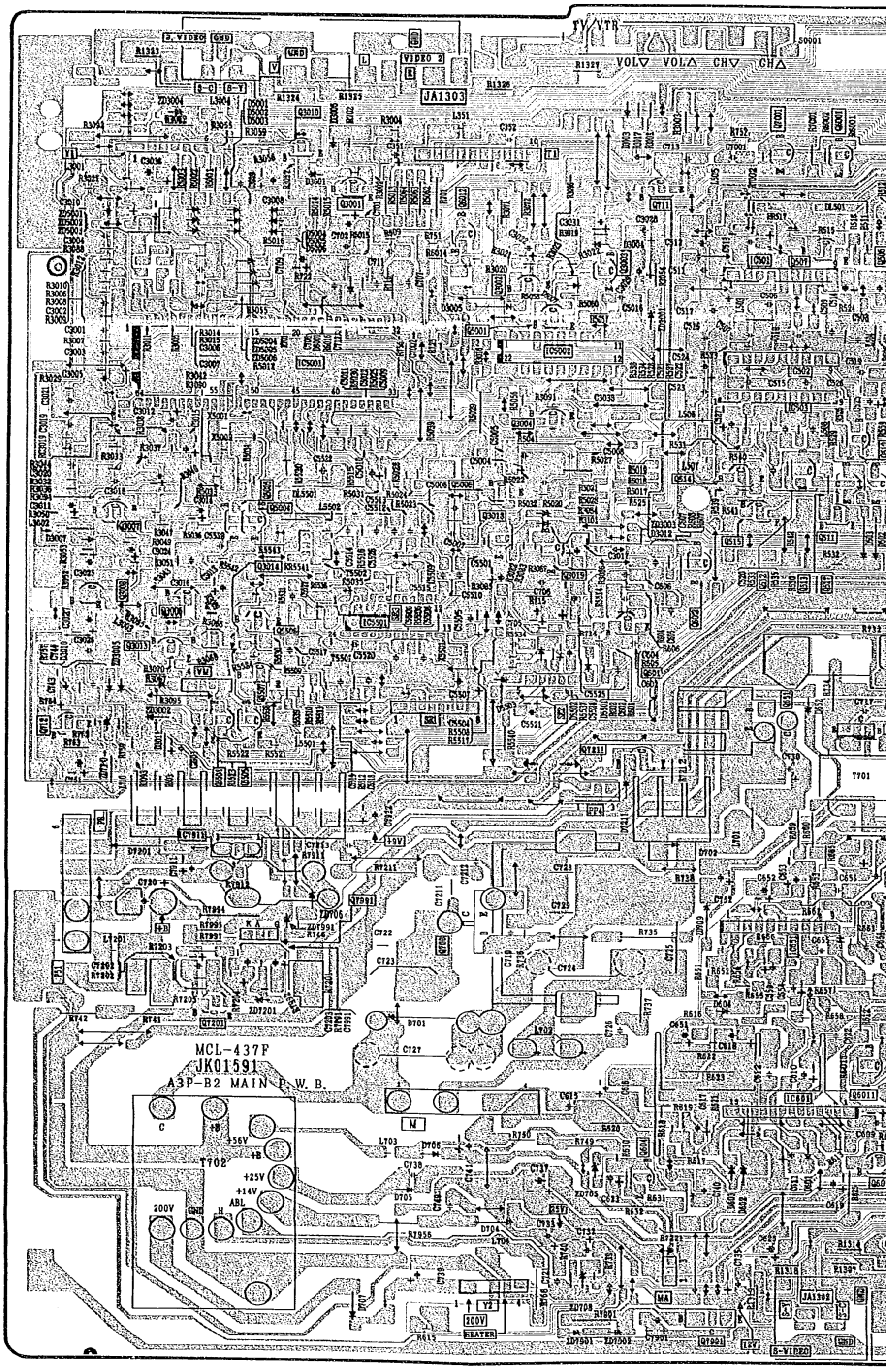
TELETEXT P.W.B.

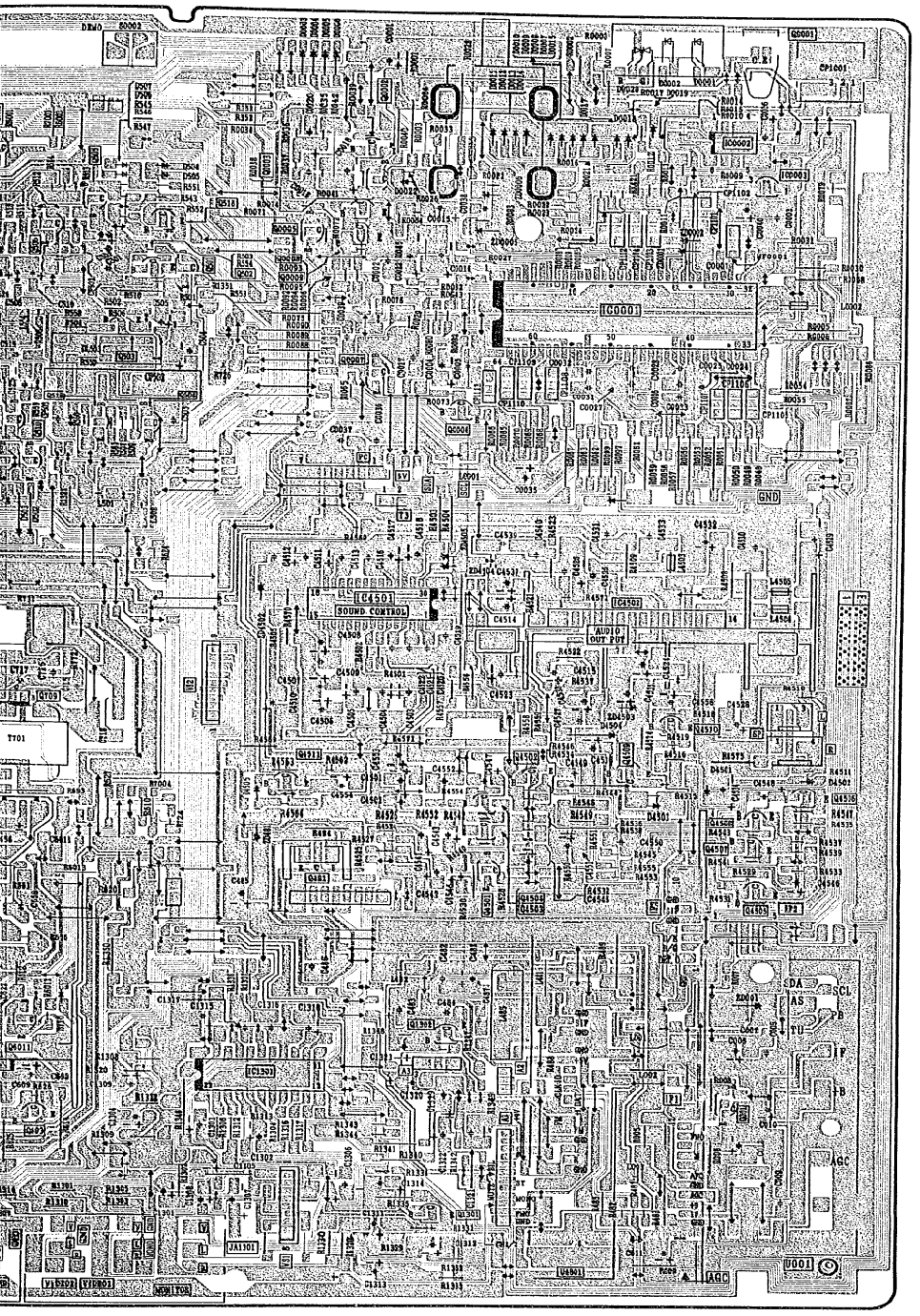


TELETEXT SUB P.W.B.

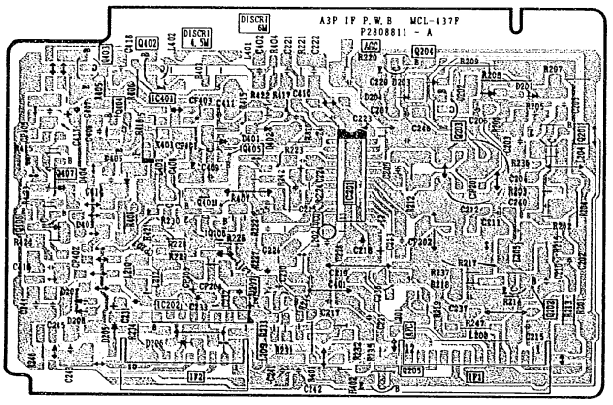


MAIN P.W.B.

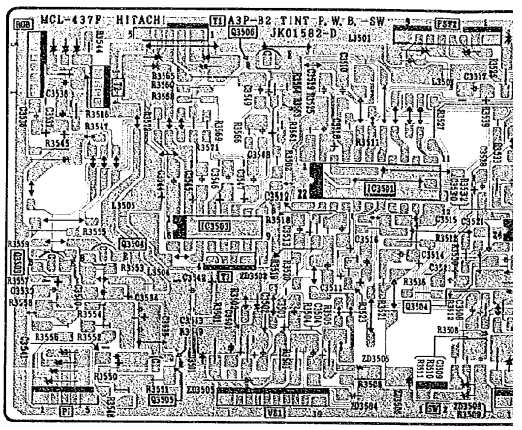



IC0001
GND
SOUND CONTROL
AUDIO OUT 2CH
SDA
SCL
AS
AGC

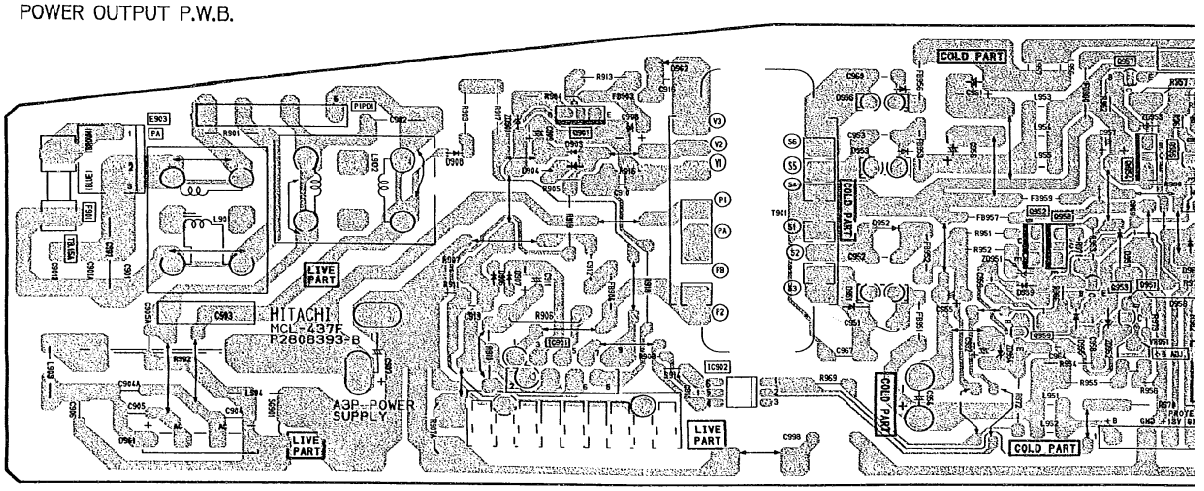
IF P.W.B.



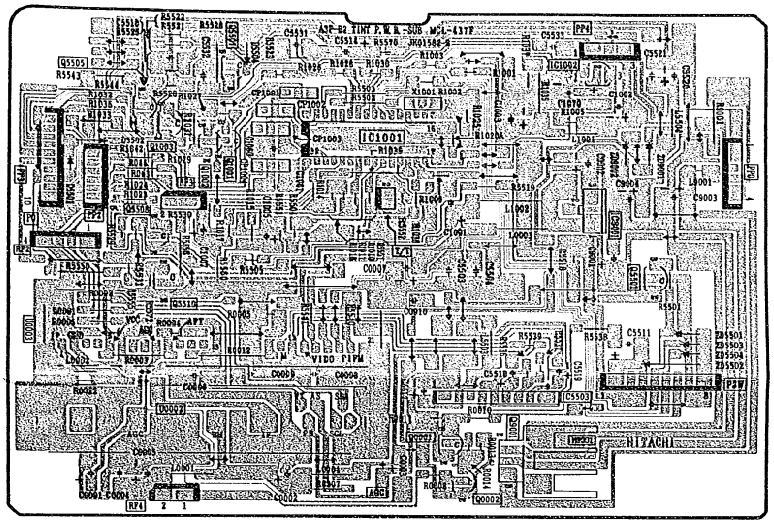
TinT SWITCH P.W.B.



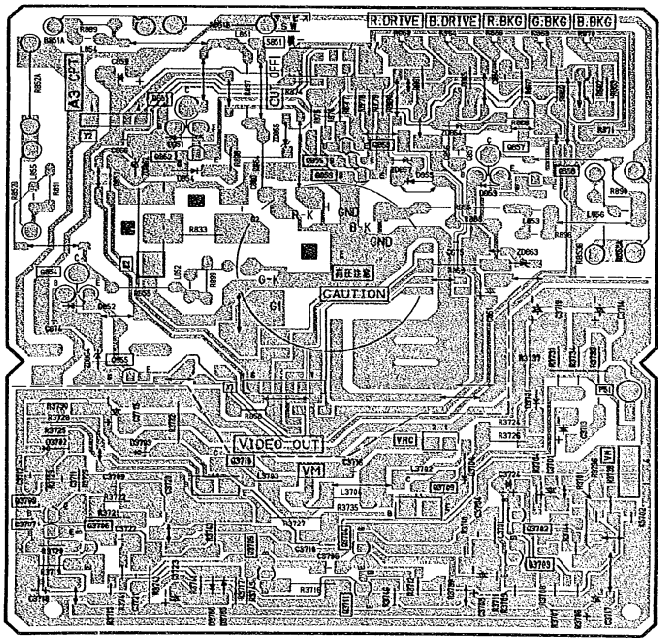
POWER OUTPUT P.W.B.

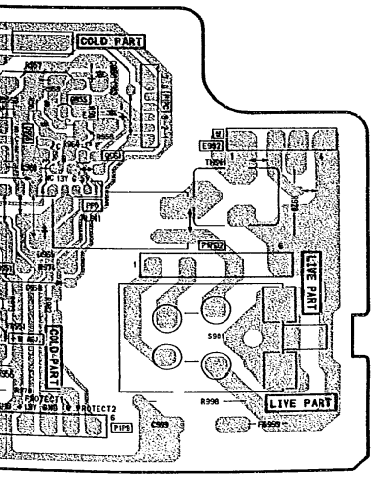


TinT SUB P.W.B.



CPT P.W.B.





REPLACEMENT PARTS LIST

PRODUCT SAFETY NOTE : Components marked with a ⚠ have special characteristics important to safety.
Before replacing any of there components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual.
Don't degrade the safety of the receiver through improper servicing.

ABBREVIATIONS	
	Capacitors·····CD:Ceramic Disk, PF:Polyester Film, EL:Electrolytic, PP:Polypropylene, PR:Paper, TA:Tantalum, TM:Trimer.
	Resistors·····CF:Carbon film, WW:Wire Would, FR:Fuse Resistor, MG:Metal Glazzed, VR:Variable resistor, CC:Carbon Composition, MF:Metal Oxide Film.
	Semiconductors····TR:Transistor, DI:Diode, ZD:Zener Diode, VA:Varistor, TH:Thermistor.

SYMBOL NO.	PART NO.	DESCRIPTION
C0001	0800015	EL 10MF 16V
C0001	0800291	EL 10MF 16V
C0002	0800327	EL 100MF 25V
C0002	0880044	PF 0.01MF +-10% 50V
C0003	0800327	EL 100MF 25V
C0003	0880057	PF 0.1MF +-10% 50V
C0004	0800351	EL 470MF 6.3V
C0004	0880031	PF 1000PF +-10% 50V
C0005	0800327	EL 100MF 25V
C0005	0880057	PF 0.1MF +-10% 50V
C0006	0800047	EL 100MF 6.3V
C0006	0880018	PF 0.22MF +-10% 50V
C0007	0800361	EL 1000MF 16V
C0007	0880053	PF 0.047MF +-10% 50V
C0015	0800291	EL 10MF 16V
C0016	0800282	EL 2.2MF 50V
C0017	0880044	PF 0.01MF +-10% 50V
C0018	0800279R	EL 1MF 50V
C0019	0890083	CD 470PF +-10% 50V
C0020	0800291	EL 10MF 16V
C0022	0800282	EL 2.2MF 50V
C0023	0890087	CD 1000PF +-10% 50V
C0024	0890087	CD 1000PF +-10% 50V
C0025	0890087	CD 1000PF +-10% 50V
C0026	0890087	CD 1000PF +-10% 50V
C0027	0890087	CD 1000PF +-10% 50V
C0028	0890087	CD 1000PF +-10% 50V
C0031	0890087	CD 1000PF +-10% 50V
C0032	0890087	CD 1000PF +-10% 50V
C0035	0800351	EL 470MF 6.3V
C0036	0880057	PF 0.1MF +-10% 50V
C0037	0880044	PF 0.01MF +-10% 50V
C0038	0880044	PF 0.01MF +-10% 50V
C0039	0890072	CD 68PF +-5% 50V
C0040	0800023	EL 22MF 16V
C005	0244105	CD 2200PF +-10% 50V
C006	0800047	EL 100MF 6.3V
C007	0244171	CD 0.01MF +80-20% 50V
C009	0880044	PF 0.01MF +-10% 50V
C010	0800326	EL 100MF 16V
C011	0800291	EL 10MF 16V
C012	0800361	EL 1000MF 16V
C1001	0800049	EL 100MF 16V
C1002	0800072	EL 470MF 6.3V
C1003	0800072	EL 470MF 6.3V
C1005	0800308R	EL 33MF 16V
C1007	0800317	EL 47MF 16V
C1060	0248684	CD 100PF +-5% 50V
C1061	0248684	CD 100PF +-5% 50V
C1070	0800317	EL 47MF 16V
C1301	0800291	EL 10MF 16V
C1302	0800291	EL 10MF 16V
C1303	0800291	EL 10MF 16V
C1304	0800291	EL 10MF 16V
C1305	0800291	EL 10MF 16V
C1306	0800291	EL 10MF 16V
C1307	0800291	EL 10MF 16V
C1308	0800291	EL 10MF 16V
C1309	0800291	EL 10MF 16V
C1311	0800353R	EL 470MF 16V
C1312	0800291	EL 10MF 16V
C1313	0800291	EL 10MF 16V
C1314	0800326	EL 100MF 16V
C1315	0800361	EL 1000MF 16V
C1316	0244171	CD 0.01MF +80-20% 50V
C1317	0244171	CD 0.01MF +80-20% 50V
C1318	0800291	EL 10MF 16V
C1319	0284638	EL 10MF 16V
C1320	0284638	EL 10MF 16V
C1321	0880051	PF 0.033MF +-10% 50V
C1322	0800291	EL 10MF 16V
C1323	0800291	EL 10MF 16V
C202	0244105	CD 2200PF +-10% 50V
C203	0880044	PF 0.01MF +-10% 50V
C204	0890117R	CD 18PF +-5% 50V
C205	0244105	CD 2200PF +-10% 50V
C206	0244105	CD 2200PF +-10% 50V
C207	0244105	CD 2200PF +-10% 50V
C209	0880044	PF 0.01MF +-10% 50V
C210	0244105	CD 2200PF +-10% 50V
C211	0244171	CD 0.01MF +80-20% 50V
C212	0244105	CD 2200PF +-10% 50V
C213	0244105	CD 2200PF +-10% 50V
C215	0880044	PF 0.01MF +-10% 50V
C217	0244105	CD 2200PF +-10% 50V
C218	0800326	EL 100MF 16V
C219	0246450	CD 27PF +-5% 50V
C220	0880031	PF 1000PF +-10% 50V

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SYMBOL NO.	PART NO.	DESCRIPTION
C221	0880055	PF 0.068MF +-10% 50V
C222	0890076	CD 150PF +-10% 50V
C223	0880044	PF 0.01MF +-10% 50V
C224	0890061R	CD 10PF +-0.5% 50V
C225	0800001	EL 0.47MF 50V
C226	0246448	CD 22PF +-5% 50V
C227	0880057	PF 0.1MF +-10% 50V
C228	0880053	PF 0.047MF +-10% 50V
C230	0800041	EL 47MF 16V
C231	0800015	EL 10MF 16V
C232	0800015	EL 10MF 16V
C233	0800015	EL 10MF 16V
C236	0880031	PF 1000PF +-10% 50V
C237	0880044	PF 0.01MF +-10% 50V
C240	0244171	CD 0.01MF +80-20% 50V
C241	0244105	CD 2200PF +-10% 50V
C242	0244105	CD 2200PF +-10% 50V
C243	0244171	CD 0.01MF +80-20% 50V
C244	0244105	CD 2200PF +-10% 50V
C245	0244105	CD 2200PF +-10% 50V
C246	0244171	CD 0.01MF +80-20% 50V
C3001	0244171	CD 0.01MF +80-20% 50V
C3002	0244171	CD 0.01MF +80-20% 50V
C3003	0244171	CD 0.01MF +80-20% 50V
C3004	0244171	CD 0.01MF +80-20% 50V
C3005	0800291	EL 10MF 16V
C3006	0244171	CD 0.01MF +80-20% 50V
C3007	0244171	CD 0.01MF +80-20% 50V
C3008	0800366	EL 2200MF 10V
C3009	0880057	PF 0.1MF +-10% 50V
C3010	0800282	EL 2.2MF 50V
C3011	0800279R	EL 1MF 50V
C3012	0800279R	EL 1MF 50V
C3013	0800279R	EL 1MF 50V
C3014	0800291	EL 10MF 16V
C3015	0800282	EL 2.2MF 50V
C3016	0880044	PF 0.01MF +-10% 50V
C3017	0800279R	EL 1MF 50V
C3018	0244171	CD 0.01MF +80-20% 50V
C3019	0244171	CD 0.01MF +80-20% 50V
C3020	0244171	CD 0.01MF +80-20% 50V
C3021	0244171	CD 0.01MF +80-20% 50V
C3022	0800291	EL 10MF 16V
C3024	0800282	EL 2.2MF 50V
C3025	0800321	EL 47MF 50V
C3026	0880057	PF 0.1MF +-10% 50V
C3027	0800326	EL 100MF 16V
C3028	0800366	EL 2200MF 10V
C3029	0800321	EL 47MF 50V
C3031	0800291	EL 10MF 16V
C3036	0800073	EL 470MF 10V
C3038	0880057	PF 0.1MF +-10% 50V
C3040	0800326	EL 100MF 16V
C3501	0800015	EL 10MF 16V
C3502	0800015	EL 10MF 16V
C3503	0800015	EL 10MF 16V
C3504	0800015	EL 10MF 16V
C3505	0800048	EL 100MF 10V
C3506	0880009	PF 0.01MF +-10% 50V
C3507	0890076	CD 150PF +-10% 50V
C3508	0800015	EL 10MF 16V
C3509	0880009	PF 0.01MF +-10% 50V
C351	0800049	EL 100MF 16V
C351	0880044	PF 0.01MF +-10% 50V
C3510	0880009	PF 0.01MF +-10% 50V
C3511	0800015	EL 10MF 16V
C3512	0800015	EL 10MF 16V
C3513	0800015	EL 10MF 16V
C3514	0800015	EL 10MF 16V
C3515	0800015	EL 10MF 16V
C3516	0800015	EL 10MF 16V
C3517	0800015	EL 10MF 16V
C3518	0800049	EL 100MF 16V
C3519	0880009	PF 0.01MF +-10% 50V
C352	0880057	PF 0.1MF +-10% 50V
C352	0890026	CD 220PF +-10% 50V
C3520	0800049	EL 100MF 16V
C3521	0880009	PF 0.01MF +-10% 50V
C3522	0800015	EL 10MF 16V
C353	0890005	CD 4.7PF +-10% 50V
C3534	0800049	EL 100MF 16V
C3535	0880009	PF 0.01MF +-10% 50V
C3536	0800003	EL 1MF 50V
C3537	0800003	EL 1MF 50V
C3538	0800003	EL 1MF 50V
C3539	0800015	EL 10MF 16V
C354	0890005	CD 4.7PF +-10% 50V
C3540	0800015	EL 10MF 16V
C3541	0800015	EL 10MF 16V
C3542	0800049	EL 100MF 16V
C3543	0880009	PF 0.01MF +-10% 50V
C3544	0800015	EL 10MF 16V
C3545	0800015	EL 10MF 16V
C3546	0800015	EL 10MF 16V
C3547	0800015	EL 10MF 16V
C3548	0800015	EL 10MF 16V
C3549	0800015	EL 10MF 16V
C355	0890026	CD 220PF +-10% 50V
C3551	0880009	PF 0.01MF +-10% 50V
C356	0890035	CD 1000PF +-10% 50V
C357	0880057	PF 0.1MF +-10% 50V
C359	0800047	EL 100MF 6.3V
C360	0890013	CD 22PF +-20% 50V
C361	0880057	PF 0.1MF +-10% 50V

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SYMBOL NO.	PART NO.	DESCRIPTION
C362	0890035	CD 1000PF +-10% 50V
C363	0880057	PF 0.1MF +-10% 50V
C364	0800047	EL 100MF 6.3V
C365	0880057	PF 0.1MF +-10% 50V
C366	0890035	CD 1000PF +-10% 50V
C367	0800109	EL 1MF 50V
C368	0800023	EL 22MF 16V
C3690	0800015	EL 10MF 16V
C3691	0800326	EL 100MF 16V
C3700	0890075	CD 120PF +-5% 50V
C3701	0252416	EL 0.47MF 50V
C3704	0890081R	CD 330PF +-10% 50V
C3705	0800326	EL 100MF 16V
C3706	0880044	PF 0.01MF +-10% 50V
C3709	0890074	CD 100PF +-5% 50V
C371	0890066	CD 27PF +-5% 50V
C3710	0890082R	CD 390PF +-10% 50V
C3710	AJ00001R	CD 0.01MF +80-20% 500V
C3711	0890074	CD 100PF +-5% 50V
C3712	0244509	CD 4700PF +-10% 500V
C3713	0253959	EL 47MF 160V
C3714	0253959	EL 47MF 160V
C3715	0253957	EL 22MF 160V
C3716	0247848	CD 56PF +-5% 500V
C3717	0800042	EL 47MF 25V
C3718	0800042	EL 47MF 25V
C3719	0253959	EL 47MF 160V
C3720	0800023	EL 22MF 16V
C3720	AJ00001R	CD 0.01MF +80-20% 500V
C3721	0880057	PF 0.1MF +-10% 50V
C3722	0880057	PF 0.1MF +-10% 50V
C3723	0800326	EL 100MF 16V
C3724	0800041	EL 47MF 16V
C3730	0800326	EL 100MF 16V
C3740	0880057	PF 0.1MF +-10% 50V
C3760	0800003	EL 1MF 50V
C3770	0800003	EL 1MF 50V
C3780	0800003	EL 1MF 50V
C402	0880044	PF 0.01MF +-10% 50V
C406	0244171	CD 0.01MF +80-20% 50V
C407	0800041	EL 47MF 16V
C408	0890067	CD 33PF +-5% 50V
C409	0244171	CD 0.01MF +80-20% 50V
C410	0244171	CD 0.01MF +80-20% 50V
C411	0244171	CD 0.01MF +80-20% 50V
C414	0244171	CD 0.01MF +80-20% 50V
C416	0890066	CD 27PF +-5% 50V
C417	0890066	CD 27PF +-5% 50V
C418	0880044	PF 0.01MF +-10% 50V
C4501	0800282	EL 2.2MF 50V
C4502	0800282	EL 2.2MF 50V
C4503	0800279R	EL 1MF 50V
C4504	0800291	EL 10MF 16V
C4505	0800291	EL 10MF 16V
C4506	0800291	EL 10MF 16V
C4507	0800291	EL 10MF 16V
C4508	0800291	EL 10MF 16V
C4509	0880044	PF 0.01MF +-10% 50V
C4510	0800367	EL 2200MF 16V
C4511	0800361	EL 1000MF 16V
C4512	0880044	PF 0.01MF +-10% 50V
C4513	0800291	EL 10MF 16V
C4514	0800291	EL 10MF 16V
C4515	0800291	EL 10MF 16V
C4516	0880041	PF 5600PF +-10% 50V
C4517	0800291	EL 10MF 16V
C4518	0800284R	EL 3.3MF 50V
C4519	0880052	PF 0.039MF 50V +-10%
C4520	0880044	PF 0.01MF +-10% 50V
C4521	0880052	PF 0.039MF 50V +-10%
C4522	0880052	PF 0.039MF 50V +-10%
C4523	0800319R	EL 47MF 35V
C4524	0800319R	EL 47MF 35V
C4525	0800336R	EL 220MF 25V
C4526	0880035	PF 2200PF +-10% 50V
C4527	0880035	PF 2200PF +-10% 50V
C4528	0800363	EL 1000MF 35V
C4529	0800363	EL 1000MF 35V
C4530	0880057	PF 0.1MF +-10% 50V
C4531	0880057	PF 0.1MF +-10% 50V
C4532	0800364	EL 1000MF 50V
C4533	0276721	PF 0.22MF 50V +-5%
C4534	0800317	EL 47MF 16V
C4535	0800326	EL 100MF 16V
C4536	0800317	EL 47MF 16V
C4537	0800291	EL 10MF 16V
C4538	0800291	EL 10MF 16V
C4539	0880053	PF 0.047MF +-10% 50V
C4540	0880057	PF 0.1MF +-10% 50V
C4541	0800291	EL 10MF 16V
C4542	0800291	EL 10MF 16V
C4543	0800291	EL 10MF 16V
C4544	0800291	EL 10MF 16V
C4545	0800286R	EL 4.7MF 25V
C4546	0800286R	EL 4.7MF 25V
C4547	0800282	EL 2.2MF 50V
C4548	0800282	EL 2.2MF 50V
C4549	0880053	PF 0.047MF +-10% 50V
C4550	0880053	PF 0.047MF +-10% 50V
C4551	0800317	EL 47MF 16V
C4552	0800326	EL 100MF 16V
C4553	0800326	EL 100MF 16V
C4554	0800319R	EL 47MF 35V
C4556	0800286R	EL 4.7MF 25V

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SYMBOL NO.	PART NO.	DESCRIPTION
C481	0800048	EL 100MF 10V
C482	0880044	PF 0.01MF +-10% 50V
C483	0800365	EL 2200MF 6.3V
C484	0880044	PF 0.01MF +-10% 50V
C485	0800365	EL 2200MF 6.3V
C486	0800047	EL 100MF 6.3V
C487	0880044	PF 0.01MF +-10% 50V
C5004	0244171	CD 0.01MF +80-20% 50V
C5005	0244171	CD 0.01MF +80-20% 50V
C5006	0244171	CD 0.01MF +80-20% 50V
C5007	0244171	CD 0.01MF +80-20% 50V
C5008	0244171	CD 0.01MF +80-20% 50V
C5009	0244171	CD 0.01MF +80-20% 50V
C501	0880057	PF 0.1MF +-10% 50V
C5010	0800277R	EL 0.47MF 50V
C5011	0244171	CD 0.01MF +80-20% 50V
C5012	0244171	CD 0.01MF +80-20% 50V
C5015	0880044	PF 0.01MF +-10% 50V
C5016	0880053	PF 0.047MF +-10% 50V
C502	0800326	EL 100MF 16V
C503	0880057	PF 0.1MF +-10% 50V
C504	0800326	EL 100MF 16V
C505	0800317	EL 47MF 16V
C506	0890061R	CD 10PF +-0.5% 50V
C507	0890069	CD 47PF +-5% 50V
C508	0880031	PF 1000PF +-10% 50V
C509	0246462	CD 82PF +-10% 50V
C510	0800317	EL 47MF 16V
C511	0880057	PF 0.1MF +-10% 50V
C512	0800326	EL 100MF 16V
C513	0800317	EL 47MF 16V
C514	0800317	EL 47MF 16V
C515	0880044	PF 0.01MF +-10% 50V
C516	0880057	PF 0.1MF +-10% 50V
C517	0800326	EL 100MF 16V
C518	0880044	PF 0.01MF +-10% 50V
C519	0880044	PF 0.01MF +-10% 50V
C520	0880044	PF 0.01MF +-10% 50V
C521	0890066	CD 27PF +-5% 50V
C522	0880044	PF 0.01MF +-10% 50V
C523	0880057	PF 0.1MF +-10% 50V
C524	0800326	EL 100MF 16V
C525	0800291	EL 10MF 16V
C526	0880044	PF 0.01MF +-10% 50V
C527	0800279R	EL 1MF 50V
C5501	0800279R	EL 1MF 50V
C5504	0880057	PF 0.1MF +-10% 50V
C5505	0800291	EL 10MF 16V
C5506	0880051	PF 0.033MF +-10% 50V
C5507	0800353R	EL 470MF 16V
C5508	0880057	PF 0.1MF +-10% 50V
C5509	0880044	PF 0.01MF +-10% 50V
C5510	0274655	PF 2200PF +-5% 50V
C5510	0880044	PF 0.01MF +-10% 50V
C5511	0284623R	EL 1MF 50V
C5512	0880044	PF 0.01MF +-10% 50V
C5513	0890077	CD 180PF +-10% 50V
C5514	0284447R	EL 2.2MF 50V
C5514	0880044	PF 0.01MF +-10% 50V
C5517	0800318	EL 47MF 25V
C5517	0880044	PF 0.01MF +-10% 50V
C5518	0800015	EL 10MF 16V
C5518	0890071	CD 56PF +-5% 50V
C5519	0800015	EL 10MF 16V
C5519	0890078R	CD 220PF +-10% 50V
C5520	0800049	EL 100MF 16V
C5520	0880044	PF 0.01MF +-10% 50V
C5521	0800279R	EL 1MF 50V
C5521	0880044	PF 0.01MF +-10% 50V
C5522	0880044	PF 0.01MF +-10% 50V
C5524	0800317	EL 47MF 16V
C5525	0800317	EL 47MF 16V
C5526	0890071	CD 56PF +-5% 50V
C5527	0880044	PF 0.01MF +-10% 50V
C5531	0880035	PF 2200PF +-10% 50V
C5533	0880044	PF 0.01MF +-10% 50V
C601	0880046	PF 0.015MF +-10% 50V
C6011	0284623R	EL 1MF 50V
C602	0880051	PF 0.033MF +-10% 50V
C603	0800291	EL 10MF 16V
C604	0880037	PF 3300PF +-10% 50V
C605	0880037	PF 3300PF +-10% 50V
C606	0880057	PF 0.1MF +-10% 50V
C607	0890081R	CD 330PF +-10% 50V
C608	0800317	EL 47MF 16V
C609	0880044	PF 0.01MF +-10% 50V
C610	0298261R	TA 1MF +-10% 35V
C611	0800329	EL 100MF 50V
C612	0890081R	CD 330PF +-10% 50V
C615	0880051	PF 0.033MF +-10% 50V
C616	0800363	EL 1000MF 35V
C617	0800007	EL 3.3MF 50V
C618	0800032	EL 33MF 16V
C619	0800328	EL 100MF 35V
C622	0890085	CD 680PF +-10% 50V
C623	0800317	EL 47MF 16V
C625	0800294	EL 10MF 50V
C651	0800023	EL 22MF 16V
C652	0284446R	EL 1MF 50V
C653	0284446R	EL 1MF 50V
C654	0800317	EL 47MF 16V
C655	0284638	EL 10MF 16V
C656	0244109	CD 4700PF +-10% 50V
C658	0284621R	EL 0.47MF 50V

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SYMBOL NO.	PART NO.	DESCRIPTION
C7001	0890082R	CD 390PF +-10% 50V
C7002	0244171	CD 0.01MF +80-20% 50V
C701	0800359R	EL 1000MF 10V
C702	0880044	PF 0.01MF +-10% 50V
C705	0800279R	EL 1MF 50V
C706	0890081R	CD 330PF +-10% 50V
C707	0880057	PF 0.1MF +-10% 50V
C708	0880047	PF 0.018MF +-10% 50V
C709	0800286R	EL 4.7MF 25V
C711	0880031	PF 1000PF +-10% 50V
C712	0880035	PF 2200PF +-10% 50V
C713	0890082R	CD 390PF +-10% 50V
C715	0247850	CD 68PF +-5% 500V
C716	0243507	CD 330PF +-10% 500V
C717	0244505	CD 2200PF +-10% 500V
C718	0299918	PP 0.022MF +-10% 200V
C719	0890081R	CD 330PF +-10% 50V
C720	0253862F	EL 220MF 160V
C7202	0800327	EL 100MF 25V
C7203	0800032	EL 33MF 16V
C721	0880057	PF 0.1MF +-10% 50V
⚠C7211	0249491	CD 470PF +-10% 2.5KV
⚠C7212	0244507	CD 3300PF +-10% 500V
C7213	0247842	CD 33PF +-5% 500V
⚠C723	0299669F	PP 3900PF +-5% 1.6KV
⚠C724	0299932	PP 0.33MF +-10% 200V
⚠C725	0299930	PP 0.22MF +-10% 200V
C726	0244501	CD 1000PF +-10% 500V
⚠C727	0262429F	PP 0.012MF +-5% 1800V
C728	0299720	PP 0.015MF +-5% 630V
C729	0299720	PP 0.015MF +-5% 630V
C730	0259474	EL 6.8MF 25V
C732	0800294	EL 10MF 50V
C733	0800354	EL 470MF 25V
C735	0800353R	EL 470MF 16V
C737	0284442	EL 2200MF 35V
C738	0243510	CD 560PF +-10% 500V
C739	0253974N	EL 33MF 250V
C740	0800327	EL 100MF 25V
C741	0800021	EL 10MF 100V
C743	0800277R	EL 0.47MF 50V
C744	0880057	PF 0.1MF +-10% 50V
C749	0243505	CD 220PF +-10% 500V
C752	0800326	EL 100MF 16V
C761	0800317	EL 47MF 16V
C7901	0800361	EL 1000MF 16V
C7911	0800326	EL 100MF 16V
C7912	0800353R	EL 470MF 16V
C7991	0800291	EL 10MF 16V
C851	0800326	EL 100MF 16V
C854	0890083	CD 470PF +-10% 50V
C856	0890086	CD 820PF +-10% 50V
C857	0890088	CD 1200PF +-10% 50V
C859	0253971	EL 4.7MF 250V
C860	0244889	CD 2200PF +-10% 2KV
C866	0244171	CD 0.01MF +80-20% 50V
C874	0244171	CD 0.01MF +80-20% 50V
C875	0244171	CD 0.01MF +80-20% 50V
C9001	0800082	EL 1000MF 16V
C9002	0800079	EL 1000MF 6.3V
C9003	0800053	EL 100MF 50V
C9004	0800051	EL 100MF 25V
⚠C901	0262774	PP 0.22MF +-20% 250V
⚠C903	0248594F	CD 0.01MF +-80-20% 250V
C904	0248593F	CD 4700PF +80-20% 250V
C904A	0244501	CD 1000PF +-10% 500V
C905	0248593F	CD 4700PF +80-20% 250V
C905A	0244501	CD 1000PF +-10% 500V
C906	0248594F	CD 0.01MF +-80-20% 250V
C907	0251886	EL 330MF 400V
C908	0800339	EL 220MF 63V
C909	0284404R	EL 100MF 16V
C910	0890087	CD 1000PF +-10% 50V
C911	0284405R	EL 220MF 16V
C912	0244213	CD 1500PF +-10% 2KV
C913	0244105	CD 2200PF +-10% 50V
C915	0880041	PF 5600PF +-10% 50V
C916	0243507	CD 330PF +-10% 500V
C951	0244202	CD 470PF +-10% 2KV
C952	0243507	CD 330PF +-10% 500V
C953	0243507	CD 330PF +-10% 500V
C954	0251703	EL 390MF 160V
C955	0284478	EL 10MF 100V
C956	0285224	EL 2200MF 25V
C957	0800049	EL 100MF 16V
C958	0244505	CD 2200PF +-10% 500V
C959	0279687R	PF 0.01MF +-10% 100V
C960	0243507	CD 330PF +-10% 500V
C961	0255011F	EL 2200MF 31.5V
C962	0800005	EL 2.2MF 50V
C963	0800049	EL 100MF 16V
C964	0890087	CD 1000PF +-10% 50V
C965	0880044	PF 0.01MF +-10% 50V
C967	0244202	CD 470PF +-10% 2KV
C968	0800023	EL 22MF 16V
C969	0880044	PF 0.01MF +-10% 50V
⚠C998	0247974	CD 2200PF +80-20%
⚠C999	0249498	CD 1000PF 400V
CK126	0800047	EL 100MF 6.3V
CR212	0890117R	CD 18PF +-5% 50V
CR366	0890068	CD 39PF +-5% 50V
R0001	0100125	CF 330K OHM +-5% 1/8W
R0001	0700027	CF 100 OHM +-5% 1/16W
R0002	0100129	CF 470K OHM +-5% 1/8W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R0002	0700027	CF 100 OHM +-5% 1/16W	R0048	0700027	CF 100 OHM +-5% 1/16W
R0003	0100117	CF 150K OHM +-5% 1/8W	R0049	0700027	CF 100 OHM +-5% 1/16W
R0003	0700067	CF 100K OHM +-5% 1/16W	R005	0100121	CF 220K OHM +-5% 1/8W
R0004	0100121	CF 220K OHM +-5% 1/8W	R0050	0700041	CF 1K OHM +-5% 1/16W
R0004	0700064	CF 56K OHM +-5% 1/16W	R0051	0700041	CF 1K OHM +-5% 1/16W
R0005	0700041	CF 1K OHM +-5% 1/16W	R0052	0700041	CF 1K OHM +-5% 1/16W
R0005	0700063	CF 47K OHM +-5% 1/16W	R0053	0100121	CF 220K OHM +-5% 1/8W
R0006	0700041	CF 1K OHM +-5% 1/16W	R0054	0700041	CF 1K OHM +-5% 1/16W
R0006	0700041	CF 1K OHM +-5% 1/16W	R0055	0700041	CF 1K OHM +-5% 1/16W
R0007	0700041	CF 1K OHM +-5% 1/16W	R0056	0700041	CF 1K OHM +-5% 1/16W
R0007	0700054	CF 10K OHM +-5% 1/16W	R0057	0700041	CF 1K OHM +-5% 1/16W
R0008	0700027	CF 100 OHM +-5% 1/16W	R0058	0700041	CF 1K OHM +-5% 1/16W
R0008	0700046	CF 2.7K OHM +-5% 1/16W	R0059	0700041	CF 1K OHM +-5% 1/16W
R0009	0700051	CF 5.6K OHM +-5% 1/16W	R006	0700045	CF 2.2K OHM +-5% 1/16W
R0010	0700054	CF 10K OHM +-5% 1/16W	R0061	0700041	CF 1K OHM +-5% 1/16W
R0010	0700058	CF 22K OHM +-5% 1/16W	R0062	0700041	CF 1K OHM +-5% 1/16W
R0011	0700054	CF 10K OHM +-5% 1/16W	R0063	0700041	CF 1K OHM +-5% 1/16W
R0011	0700058	CF 22K OHM +-5% 1/16W	R0065	0700041	CF 1K OHM +-5% 1/16W
R0012	0700027	CF 100 OHM +-5% 1/16W	R0066	0700045	CF 2.2K OHM +-5% 1/16W
R0012	0700058	CF 22K OHM +-5% 1/16W	R0067	0700041	CF 1K OHM +-5% 1/16W
R0013	0700054	CF 10K OHM +-5% 1/16W	R0068	0700041	CF 1K OHM +-5% 1/16W
R0013	0700063	CF 47K OHM +-5% 1/16W	R0069	0700041	CF 1K OHM +-5% 1/16W
R0014	0700054	CF 10K OHM +-5% 1/16W	R007	0700064	CF 56K OHM +-5% 1/16W
R0014	0700054	CF 10K OHM +-5% 1/16W	R0070	0700041	CF 1K OHM +-5% 1/16W
R0015	0700045	CF 2.2K OHM +-5% 1/16W	R0071	0700062	CF 39K OHM +-5% 1/16W
R0016	0700041	CF 1K OHM +-5% 1/16W	R0072	0700053	CF 8.2K OHM +-5% 1/16W
R0017	0700041	CF 1K OHM +-5% 1/16W	R0073	0700054	CF 10K OHM +-5% 1/16W
R0018	0700046	CF 2.7K OHM +-5% 1/16W	R0074	0700054	CF 10K OHM +-5% 1/16W
R0019	0700046	CF 2.7K OHM +-5% 1/16W	R0075	0700058	CF 22K OHM +-5% 1/16W
R0021	0700058	CF 22K OHM +-5% 1/16W	R0076	0700054	CF 10K OHM +-5% 1/16W
R0022	0700058	CF 22K OHM +-5% 1/16W	R0078	0700054	CF 10K OHM +-5% 1/16W
R0023	0700058	CF 22K OHM +-5% 1/16W	R0079	0700041	CF 1K OHM +-5% 1/16W
R0024	0700058	CF 22K OHM +-5% 1/16W	R008	0700064	CF 56K OHM +-5% 1/16W
R0026	0700054	CF 10K OHM +-5% 1/16W	R0080	0700041	CF 1K OHM +-5% 1/16W
R0027	0700051	CF 5.6K OHM +-5% 1/16W	R0081	0700055	CF 12K OHM +-5% 1/16W
R0028	0700054	CF 10K OHM +-5% 1/16W	R0082	0700041	CF 1K OHM +-5% 1/16W
R0029	0700045	CF 2.2K OHM +-5% 1/16W	R0083	0700055	CF 12K OHM +-5% 1/16W
R0030	0700067	CF 100K OHM +-5% 1/16W	R0084	0700041	CF 1K OHM +-5% 1/16W
R0031	0100115	CF 120K OHM +-5% 1/8W	R0085	0700041	CF 1K OHM +-5% 1/16W
R0032	0700054	CF 10K OHM +-5% 1/16W	R0086	0700027	CF 100 OHM +-5% 1/16W
R0033	0700054	CF 10K OHM +-5% 1/16W	R0087	0700027	CF 100 OHM +-5% 1/16W
R0034	0700027	CF 100 OHM +-5% 1/16W	R0088	0700041	CF 1K OHM +-5% 1/16W
R0035	0700054	CF 10K OHM +-5% 1/16W	R0089	0700041	CF 1K OHM +-5% 1/16W
R0036	0700064	CF 56K OHM +-5% 1/16W	R009	0100105	CF 47K OHM +-5% 1/8W
R0037	0700041	CF 1K OHM +-5% 1/16W	R0090	0700041	CF 1K OHM +-5% 1/16W
R0038	0700051	CF 5.6K OHM +-5% 1/16W	R0091	0700051	CF 5.6K OHM +-5% 1/16W
R0039	0700058	CF 22K OHM +-5% 1/16W	R0092	0700064	CF 56K OHM +-5% 1/16W
R0040	0700054	CF 10K OHM +-5% 1/16W	R0093	0700062	CF 39K OHM +-5% 1/16W
R0041	0700067	CF 100K OHM +-5% 1/16W	R0094	0700064	CF 56K OHM +-5% 1/16W
R0042	0700041	CF 1K OHM +-5% 1/16W	R0095	0700062	CF 39K OHM +-5% 1/16W
R0043	0700048	CF 3.9K OHM +-5% 1/16W	R0096	0700067	CF 100K OHM +-5% 1/16W
R0045	0700054	CF 10K OHM +-5% 1/16W	R0097	0700027	CF 100 OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R0098	0700027	CF 100 OHM +-5% 1/16W	R1323	0100045	CF 150 OHM +-5% 1/8W
R0099	0700027	CF 100 OHM +-5% 1/16W	R1324	0100113	CF 100K OHM +-5% 1/8W
R043	0700036	CF 470 OHM +-5% 1/16W	R1325	0100113	CF 100K OHM +-5% 1/8W
R044	0700036	CF 470 OHM +-5% 1/16W	R1326	0100111	CF 82K OHM +-5% 1/8W
R1001	0700041	CF 1K OHM +-5% 1/16W	R1327	0100111	CF 82K OHM +-5% 1/8W
R1002	0700041	CF 1K OHM +-5% 1/16W	R1328	0100113	CF 100K OHM +-5% 1/8W
R1003	0700054	CF 10K OHM +-5% 1/16W	R1329	0100113	CF 100K OHM +-5% 1/8W
R1005	0700054	CF 10K OHM +-5% 1/16W	R1330	0100113	CF 100K OHM +-5% 1/8W
R1006	0700067	CF 100K OHM +-5% 1/16W	R1331	0100038	CF 75 OHM +-5% 1/8W
R1010	0700045	CF 2.2K OHM +-5% 1/16W	R1332	0100063	CF 820 OHM +-5% 1/8W
R1011	0700052	CF 6.8K OHM +-5% 1/16W	R1333	0100063	CF 820 OHM +-5% 1/8W
R1015	0700053	CF 8.2K OHM +-5% 1/16W	R1334	0700027	CF 100 OHM +-5% 1/16W
R1017	0700057	CF 18K OHM +-5% 1/16W	R1335	0114143	CF 330 OHM +-5% 1/4W
R1020A	0700058	CF 22K OHM +-5% 1/16W	R1336	0100073	CF 2.2K OHM +-5% 1/8W
R1023	0700037	CF 560 OHM +-5% 1/16W	R1337	0100073	CF 2.2K OHM +-5% 1/8W
R1024	0700037	CF 560 OHM +-5% 1/16W	R1340	0700027	CF 100 OHM +-5% 1/16W
R1025	0700054	CF 10K OHM +-5% 1/16W	R1341	0700027	CF 100 OHM +-5% 1/16W
R1026	0700054	CF 10K OHM +-5% 1/16W	R1342	0700042	CF 1.2K OHM +-5% 1/16W
R1027	0700061	CF 33K OHM +-5% 1/16W	R1343	0700042	CF 1.2K OHM +-5% 1/16W
R1028	0700054	CF 10K OHM +-5% 1/16W	R1344	0700042	CF 1.2K OHM +-5% 1/16W
R1029	0700061	CF 33K OHM +-5% 1/16W	R1346	0114135	CF 150 OHM +-5% 1/4W
R1030	0700054	CF 10K OHM +-5% 1/16W	R1347	0700054	CF 10K OHM +-5% 1/16W
R1031	0700061	CF 33K OHM +-5% 1/16W	R1348	0700067	CF 100K OHM +-5% 1/16W
R1032	0700047	CF 3.3K OHM +-5% 1/16W	R1349	0700063	CF 47K OHM +-5% 1/16W
R1033	0700047	CF 3.3K OHM +-5% 1/16W	⚠R1350	0119514	FR 10 OHM +-5% 1/4W
R1035	0700063	CF 47K OHM +-5% 1/16W	R1351	0700041	CF 1K OHM +-5% 1/16W
R1036	0700047	CF 3.3K OHM +-5% 1/16W	R1360	0700027	CF 100 OHM +-5% 1/16W
R1037	0700064	CF 56K OHM +-5% 1/16W	R1361	0700027	CF 100 OHM +-5% 1/16W
R1038	0700041	CF 1K OHM +-5% 1/16W	R1362	0700027	CF 100 OHM +-5% 1/16W
R1039	0700041	CF 1K OHM +-5% 1/16W	R1363	0700027	CF 100 OHM +-5% 1/16W
R1042	0700037	CF 560 OHM +-5% 1/16W	R1364	0700027	CF 100 OHM +-5% 1/16W
R1051	0700054	CF 10K OHM +-5% 1/16W	R201	0700014	CF 10 OHM +-5% 1/16W
R1301	0100038	CF 75 OHM +-5% 1/8W	R202	0700051	CF 5.6K OHM +-5% 1/16W
R1302	0100041	CF 100 OHM +-5% 1/8W	R203	0700045	CF 2.2K OHM +-5% 1/16W
R1303	0100105	CF 47K OHM +-5% 1/8W	R204	0114135	CF 150 OHM +-5% 1/4W
R1304	0100065	CF 1K OHM +-5% 1/8W	R205	0700014	CF 10 OHM +-5% 1/16W
R1305	0100105	CF 47K OHM +-5% 1/8W	R206	0700027	CF 100 OHM +-5% 1/16W
R1306	0100065	CF 1K OHM +-5% 1/8W	R207	0700037	CF 560 OHM +-5% 1/16W
R1307	0100113	CF 100K OHM +-5% 1/8W	R208	0114143	CF 330 OHM +-5% 1/4W
R1308	0187038	CF 75 OHM +-5% 1/16W	R209	0114149	CF 560 OHM +-5% 1/4W
R1309	0100041	CF 100 OHM +-5% 1/8W	R213	0700014	CF 10 OHM +-5% 1/16W
R1310	0100111	CF 82K OHM +-5% 1/8W	R214	0700045	CF 2.2K OHM +-5% 1/16W
R1312	0100065	CF 1K OHM +-5% 1/8W	R215	0700051	CF 5.6K OHM +-5% 1/16W
R1313	0100065	CF 1K OHM +-5% 1/8W	R217	0700037	CF 560 OHM +-5% 1/16W
R1314	0100111	CF 82K OHM +-5% 1/8W	R218	0700014	CF 10 OHM +-5% 1/16W
R1316	0100065	CF 1K OHM +-5% 1/8W	R219	0700041	CF 1K OHM +-5% 1/16W
R1317	0100065	CF 1K OHM +-5% 1/8W	R220	0150158	VR 30K OHM-B RV-6
R1318	0100045	CF 150 OHM +-5% 1/8W	R221	0700044	CF 1.8K OHM +-5% 1/16W
R1319	0100113	CF 100K OHM +-5% 1/8W	R222	0700045	CF 2.2K OHM +-5% 1/16W
R1320	0100038	CF 75 OHM +-5% 1/8W	R223	0700054	CF 10K OHM +-5% 1/16W
R1321	0700041	CF 1K OHM +-5% 1/16W	R224	0700032	CF 220 OHM +-5% 1/16W
R1322	0100041	CF 100 OHM +-5% 1/8W	R225	0700041	CF 1K OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R226	0700027	CF 100 OHM +-5% 1/16W	R3052	0700029	CF 150 OHM +-5% 1/16W
R227	0100051	CF 270 OHM +-5% 1/8W	R3053	0700063	CF 47K OHM +-5% 1/16W
R228	0700033	CF 270 OHM +-5% 1/16W	R3054	0100067	CF 1.2K OHM +-5% 1/8W
R229	0700031	CF 180 OHM +-5% 1/16W	R3055	0700034	CF 330 OHM +-5% 1/16W
R230	0700032	CF 220 OHM +-5% 1/16W	R3056	0700029	CF 150 OHM +-5% 1/16W
R231	0700032	CF 220 OHM +-5% 1/16W	R3057	0700043	CF 1.5K OHM +-5% 1/16W
R232	0150134	VR 1K OHM-B	R3059	0114135	CF 150 OHM +-5% 1/4W
R233	0700041	CF 1K OHM +-5% 1/16W	R3062	0700027	CF 100 OHM +-5% 1/16W
R234	0700063	CF 47K OHM +-5% 1/16W	R3065	0700029	CF 150 OHM +-5% 1/16W
R235	0700045	CF 2.2K OHM +-5% 1/16W	R3066	0700035	CF 390 OHM +-5% 1/16W
R236	0700037	CF 560 OHM +-5% 1/16W	R3067	0700037	CF 560 OHM +-5% 1/16W
R237	0700027	CF 100 OHM +-5% 1/16W	R3068	0700037	CF 560 OHM +-5% 1/16W
R242	0700029	CF 150 OHM +-5% 1/16W	R3069	0700043	CF 1.5K OHM +-5% 1/16W
R245	0700027	CF 100 OHM +-5% 1/16W	R3070	0100055	CF 390 OHM +-5% 1/8W
R246	0700064	CF 56K OHM +-5% 1/16W	R3071	0700054	CF 10K OHM +-5% 1/16W
R247	0700051	CF 5.6K OHM +-5% 1/16W	R3072	0700054	CF 10K OHM +-5% 1/16W
R3001	0700054	CF 10K OHM +-5% 1/16W	R3082	0700046	CF 2.7K OHM +-5% 1/16W
R3002	0700043	CF 1.5K OHM +-5% 1/16W	R3083	0700051	CF 5.6K OHM +-5% 1/16W
R3003	0700054	CF 10K OHM +-5% 1/16W	R3084	0700054	CF 10K OHM +-5% 1/16W
R3004	0700054	CF 10K OHM +-5% 1/16W	R3085	0700058	CF 22K OHM +-5% 1/16W
R3005	0700065	CF 68K OHM +-5% 1/16W	R3086	0700041	CF 1K OHM +-5% 1/16W
R3006	0700066	CF 82K OHM +-5% 1/16W	R3087	0700041	CF 1K OHM +-5% 1/16W
R3007	0700062	CF 39K OHM +-5% 1/16W	R3088	0700067	CF 100K OHM +-5% 1/16W
R3008	0700067	CF 100K OHM +-5% 1/16W	R3090	0700054	CF 10K OHM +-5% 1/16W
R3009	0700054	CF 10K OHM +-5% 1/16W	R3091	0700051	CF 5.6K OHM +-5% 1/16W
R3010	0700058	CF 22K OHM +-5% 1/16W	R3092	0700054	CF 10K OHM +-5% 1/16W
R3011	0700058	CF 22K OHM +-5% 1/16W	R3093	0700058	CF 22K OHM +-5% 1/16W
R3012	0700054	CF 10K OHM +-5% 1/16W	R3094	0700027	CF 100 OHM +-5% 1/16W
R3014	0700051	CF 5.6K OHM +-5% 1/16W	R3095	0100055	CF 390 OHM +-5% 1/8W
R3015	0700049	CF 4.7K OHM +-5% 1/16W	R3096	0110213	MF 47 OHM +-5% 2W
R3016	0700066	CF 82K OHM +-5% 1/16W	R3101	0700041	CF 1K OHM +-5% 1/16W
R3017	0700054	CF 10K OHM +-5% 1/16W	R3501	0100041	CF 100 OHM +-5% 1/8W
R3019	0700061	CF 33K OHM +-5% 1/16W	R3502	0100041	CF 100 OHM +-5% 1/8W
R3020	0700029	CF 150 OHM +-5% 1/16W	R3503	0100041	CF 100 OHM +-5% 1/8W
R3021	0700051	CF 5.6K OHM +-5% 1/16W	R3504	0100041	CF 100 OHM +-5% 1/8W
R3022	0700041	CF 1K OHM +-5% 1/16W	R3505	0100041	CF 100 OHM +-5% 1/8W
R3023	0700052	CF 6.8K OHM +-5% 1/16W	R3506	0100041	CF 100 OHM +-5% 1/8W
R3027	0700049	CF 4.7K OHM +-5% 1/16W	R3507	0100065	CF 1K OHM +-5% 1/8W
R3029	0700054	CF 10K OHM +-5% 1/16W	R3508	0700052	CF 6.8K OHM +-5% 1/16W
R3032	0700054	CF 10K OHM +-5% 1/16W	R3509	0700063	CF 47K OHM +-5% 1/16W
R3033	0700058	CF 22K OHM +-5% 1/16W	R351	0700027	CF 100 OHM +-5% 1/16W
R3036	0700047	CF 3.3K OHM +-5% 1/16W	R351	0700054	CF 10K OHM +-5% 1/16W
R3037	0700047	CF 3.3K OHM +-5% 1/16W	R3510	0700027	CF 100 OHM +-5% 1/16W
R3038	0700058	CF 22K OHM +-5% 1/16W	R3511	0700027	CF 100 OHM +-5% 1/16W
R3042	0700058	CF 22K OHM +-5% 1/16W	R3512	0700027	CF 100 OHM +-5% 1/16W
R3043	0700058	CF 22K OHM +-5% 1/16W	R3513	0700051	CF 5.6K OHM +-5% 1/16W
R3044	0179536	MG 1M OHM +-5% 1/8W	R3514	0700057	CF 18K OHM +-5% 1/16W
R3047	0700034	CF 330 OHM +-5% 1/16W	R3515	0700045	CF 2.2K OHM +-5% 1/16W
R3048	0700043	CF 1.5K OHM +-5% 1/16W	R3516	0700045	CF 2.2K OHM +-5% 1/16W
R3049	0700041	CF 1K OHM +-5% 1/16W	R3517	0700041	CF 1K OHM +-5% 1/16W
R3050	0700039	CF 820 OHM +-5% 1/16W	R3518	0700027	CF 100 OHM +-5% 1/16W
R3051	0700037	CF 560 OHM +-5% 1/16W	R3519	0700027	CF 100 OHM +-5% 1/16W

CMT2998VP

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R352	0700027	CF 100 OHM +-5% 1/16W	R3680	0700034	CF 330 OHM +-5% 1/16W
R352	0700041	CF 1K OHM +-5% 1/16W	R3690	0700034	CF 330 OHM +-5% 1/16W
R3520	0700027	CF 100 OHM +-5% 1/16W	R3700	0700034	CF 330 OHM +-5% 1/16W
R3521	0700027	CF 100 OHM +-5% 1/16W	R3701	0700067	CF 100K OHM +-5% 1/16W
R3522	0700027	CF 100 OHM +-5% 1/16W	R3702	0700059	CF 27K OHM +-5% 1/16W
R3523	0700027	CF 100 OHM +-5% 1/16W	R3703	0700041	CF 1K OHM +-5% 1/16W
R3526	0700027	CF 100 OHM +-5% 1/16W	R3704	0700035	CF 390 OHM +-5% 1/16W
R3527	0700027	CF 100 OHM +-5% 1/16W	R3706	0700036	CF 470 OHM +-5% 1/16W
R353	0700051	CF 5.6K OHM +-5% 1/16W	R3707	0700059	CF 27K OHM +-5% 1/16W
R354	0700027	CF 100 OHM +-5% 1/16W	R3708	0700067	CF 100K OHM +-5% 1/16W
R3544	0700027	CF 100 OHM +-5% 1/16W	R3709	0700033	CF 270 OHM +-5% 1/16W
R3545	0700027	CF 100 OHM +-5% 1/16W	R371	0700038	CF 680 OHM +-5% 1/16W
R3546	0700027	CF 100 OHM +-5% 1/16W	R3710	0150305	VR 10K OHM B
R3547	0700027	CF 100 OHM +-5% 1/16W	R3710	0700033	CF 270 OHM +-5% 1/16W
R3548	0150134	VR 1K OHM-B	R3711	0700042	CF 1.2K OHM +-5% 1/16W
R3549	0700063	CF 47K OHM +-5% 1/16W	R3712	0700045	CF 2.2K OHM +-5% 1/16W
R355	0700027	CF 100 OHM +-5% 1/16W	R3713	0700058	CF 22K OHM +-5% 1/16W
R3550	0700054	CF 10K OHM +-5% 1/16W	R3716	0113742	CF 470 OHM +-5% 1/2W
R3551	0700041	CF 1K OHM +-5% 1/16W	R3717	0700046	CF 2.7K OHM +-5% 1/16W
R3552	0150134	VR 1K OHM-B	R3719	0700024	CF 56 OHM +-5% 1/16W
R3553	0700063	CF 47K OHM +-5% 1/16W	R372	0700038	CF 680 OHM +-5% 1/16W
R3554	0700054	CF 10K OHM +-5% 1/16W	R3720	0100065	CF 1K OHM +-5% 1/8W
R3555	0700041	CF 1K OHM +-5% 1/16W	R3720	0700029	CF 150 OHM +-5% 1/16W
R3556	0150134	VR 1K OHM-B	R3721	0113701	CF 10 OHM +-5% 1/2W
R3557	0700063	CF 47K OHM +-5% 1/16W	R3722	0100039	CF 82 OHM +-5% 1/8W
R3558	0700054	CF 10K OHM +-5% 1/16W	R3723	0100039	CF 82 OHM +-5% 1/8W
R3559	0700041	CF 1K OHM +-5% 1/16W	R3724	0114165	CF 1.5K OHM +-5% 1/4W
R356	0700037	CF 560 OHM +-5% 1/16W	R3725	0100069	CF 1.5K OHM +-5% 1/8W
R3560	0700027	CF 100 OHM +-5% 1/16W	R3726	0114143	CF 330 OHM +-5% 1/4W
R3562	0700027	CF 100 OHM +-5% 1/16W	R3727	0114221	CF 68K OHM +-5% 1/4W
R3563	0700027	CF 100 OHM +-5% 1/16W	R3728	0114221	CF 68K OHM +-5% 1/4W
R3565	0700027	CF 100 OHM +-5% 1/16W	R3729	0100053	CF 330 OHM +-5% 1/8W
R3566	0700027	CF 100 OHM +-5% 1/16W	R373	0700038	CF 680 OHM +-5% 1/16W
R3568	0700027	CF 100 OHM +-5% 1/16W	R3730	0100091	CF 12K OHM +-5% 1/8W
R3569	0700027	CF 100 OHM +-5% 1/16W	R3730	0700029	CF 150 OHM +-5% 1/16W
R357	0700037	CF 560 OHM +-5% 1/16W	R3731	0113716	CF 43 OHM +-5% 1/2W
R3571	0700027	CF 100 OHM +-5% 1/16W	R3732	0113716	CF 43 OHM +-5% 1/2W
R3572	0700027	CF 100 OHM +-5% 1/16W	R3733	0113686	CF 2.7 OHM +-5% 1/2W
R358	0700037	CF 560 OHM +-5% 1/16W	R3734	0113686	CF 2.7 OHM +-5% 1/2W
R3581	0700035	CF 390 OHM +-5% 1/16W	R3735	0110229	MF 220 OHM +-5% 2W
R3582	0700035	CF 390 OHM +-5% 1/16W	R3736	0110139	MF 560 OHM +-5% 1W
R359	0700031	CF 180 OHM +-5% 1/16W	R3737	0110132	MF 300 OHM +-5% 1W
R360	0700021	CF 33 OHM +-5% 1/16W	R3738	0700041	CF 1K OHM +-5% 1/16W
R361	0700021	CF 33 OHM +-5% 1/16W	R3739	0700061	CF 33K OHM +-5% 1/16W
R362	0700021	CF 33 OHM +-5% 1/16W	R3740	0700027	CF 100 OHM +-5% 1/16W
R364	0700067	CF 100K OHM +-5% 1/16W	R3740	0700061	CF 33K OHM +-5% 1/16W
R365	0700062	CF 39K OHM +-5% 1/16W	R3741	0700036	CF 470 OHM +-5% 1/16W
R3650	0700043	CF 1.5K OHM +-5% 1/16W	R3742	0700067	CF 100K OHM +-5% 1/16W
R366	0700027	CF 100 OHM +-5% 1/16W	R3743	0700055	CF 12K OHM +-5% 1/16W
R3660	0700063	CF 47K OHM +-5% 1/16W	R3744	0700042	CF 1.2K OHM +-5% 1/16W
R367	0100065	CF 1K OHM +-5% 1/8W	R3745	0700067	CF 100K OHM +-5% 1/16W
R3670	0700058	CF 22K OHM +-5% 1/16W	R3750	0700029	CF 150 OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R3760	0700059	CF 27K OHM +-5% 1/16W	R4534	0700044	CF 1.8K OHM +-5% 1/16W
R3770	0700065	CF 68K OHM +-5% 1/16W	R4535	0700044	CF 1.8K OHM +-5% 1/16W
R3780	0114147	CF 470 OHM +-5% 1/4W	R4536	0700034	CF 330 OHM +-5% 1/16W
R3781	0110197	MF 10 OHM +-5% 2W	R4537	0700034	CF 330 OHM +-5% 1/16W
R3790	0100041	CF 100 OHM +-5% 1/8W	R4538	0700063	CF 47K OHM +-5% 1/16W
R3800	0100041	CF 100 OHM +-5% 1/8W	R4539	0700063	CF 47K OHM +-5% 1/16W
R3810	0100041	CF 100 OHM +-5% 1/8W	R4540	0700041	CF 1K OHM +-5% 1/16W
R3820	0100041	CF 100 OHM +-5% 1/8W	R4541	0700041	CF 1K OHM +-5% 1/16W
R401	0700027	CF 100 OHM +-5% 1/16W	R4542	0700041	CF 1K OHM +-5% 1/16W
R402	0150136	VR 5K OHM-B	R4543	0700041	CF 1K OHM +-5% 1/16W
R403	0700059	CF 27K OHM +-5% 1/16W	R4544	0700035	CF 390 OHM +-5% 1/16W
R404	0700047	CF 3.3K OHM +-5% 1/16W	R4545	0700035	CF 390 OHM +-5% 1/16W
R405	0700064	CF 56K OHM +-5% 1/16W	R4546	0700038	CF 680 OHM +-5% 1/16W
R406	0700064	CF 56K OHM +-5% 1/16W	R4547	0700038	CF 680 OHM +-5% 1/16W
R407	0700027	CF 100 OHM +-5% 1/16W	R4548	0100115	CF 120K OHM +-5% 1/8W
R408	0100057	CF 470 OHM +-5% 1/8W	R4549	0100115	CF 120K OHM +-5% 1/8W
R415	0700051	CF 5.6K OHM +-5% 1/16W	R4550	0700049	CF 4.7K OHM +-5% 1/16W
R416	0700054	CF 10K OHM +-5% 1/16W	R4551	0700049	CF 4.7K OHM +-5% 1/16W
R417	0700051	CF 5.6K OHM +-5% 1/16W	R4552	0700061	CF 33K OHM +-5% 1/16W
R418	0700054	CF 10K OHM +-5% 1/16W	R4553	0700061	CF 33K OHM +-5% 1/16W
R421	0700053	CF 8.2K OHM +-5% 1/16W	R4554	0700061	CF 33K OHM +-5% 1/16W
R422	0700051	CF 5.6K OHM +-5% 1/16W	R4555	0700061	CF 33K OHM +-5% 1/16W
R423	0700051	CF 5.6K OHM +-5% 1/16W	R4556	0700045	CF 2.2K OHM +-5% 1/16W
R424	0700054	CF 10K OHM +-5% 1/16W	R4557	0700045	CF 2.2K OHM +-5% 1/16W
R425	0700051	CF 5.6K OHM +-5% 1/16W	R4558	0700054	CF 10K OHM +-5% 1/16W
R4501	0700027	CF 100 OHM +-5% 1/16W	R4559	0700054	CF 10K OHM +-5% 1/16W
R4502	0700027	CF 100 OHM +-5% 1/16W	R4560	0148024	WW 1 OHM +-10% 2W
R4503	0700027	CF 100 OHM +-5% 1/16W	R4562	0700037	CF 560 OHM +-5% 1/16W
R4504	0700027	CF 100 OHM +-5% 1/16W	R4563	0100065	CF 1K OHM +-5% 1/8W
R4505	0100127	CF 390K OHM +-5% 1/8W	R4564	0700036	CF 470 OHM +-5% 1/16W
⚠R4508	01195051	FR 2.2 OHM +-5% 1/4W	⚠R4569	0119514	FR 10 OHM +-5% 1/4W
⚠R4509	01195051	FR 2.2 OHM +-5% 1/4W	R4570	0110215	MF 56 OHM +-5% 2W
R4510	0700047	CF 3.3K OHM +-5% 1/16W	R4571	0114177	CF 4.7K OHM +-5% 1/4W
R4511	0700047	CF 3.3K OHM +-5% 1/16W	R4572	0700041	CF 1K OHM +-5% 1/16W
R4514	0100049	CF 220 OHM +-5% 1/8W	R4573	0700041	CF 1K OHM +-5% 1/16W
R4515	0700067	CF 100K OHM +-5% 1/16W	R481	0700027	CF 100 OHM +-5% 1/16W
R4516	0700056	CF 15K OHM +-5% 1/16W	R482	0700027	CF 100 OHM +-5% 1/16W
R4518	0700067	CF 100K OHM +-5% 1/16W	R483	0700027	CF 100 OHM +-5% 1/16W
R4519	0700024	CF 56 OHM +-5% 1/16W	R484	0114147	CF 470 OHM +-5% 1/4W
R4521	0700042	CF 1.2K OHM +-5% 1/16W	R485	0700058	CF 22K OHM +-5% 1/16W
R4522	0700042	CF 1.2K OHM +-5% 1/16W	R488	0700036	CF 470 OHM +-5% 1/16W
R4523	0700058	CF 22K OHM +-5% 1/16W	R489	0700036	CF 470 OHM +-5% 1/16W
R4524	0700048	CF 3.9K OHM +-5% 1/16W	R5001	0100049	CF 220 OHM +-5% 1/8W
R4525	0700048	CF 3.9K OHM +-5% 1/16W	R5002	0100049	CF 220 OHM +-5% 1/8W
R4526	0700046	CF 2.7K OHM +-5% 1/16W	R5003	0100049	CF 220 OHM +-5% 1/8W
R4527	0700046	CF 2.7K OHM +-5% 1/16W	R501	0700035	CF 390 OHM +-5% 1/16W
R4528	0700059	CF 27K OHM +-5% 1/16W	R5012	0700057	CF 18K OHM +-5% 1/16W
R4529	0700059	CF 27K OHM +-5% 1/16W	R5013	0700049	CF 4.7K OHM +-5% 1/16W
R4530	0700056	CF 15K OHM +-5% 1/16W	R5014	0700041	CF 1K OHM +-5% 1/16W
R4531	0700056	CF 15K OHM +-5% 1/16W	R5015	0700054	CF 10K OHM +-5% 1/16W
R4532	0700044	CF 1.8K OHM +-5% 1/16W	R5016	0700053	CF 8.2K OHM +-5% 1/16W
R4533	0700044	CF 1.8K OHM +-5% 1/16W	R5017	0700027	CF 100 OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R5018	0700027	CF 100 OHM +-5% 1/16W	R533	0700053	CF 8.2K OHM +-5% 1/16W
R5019	0700027	CF 100 OHM +-5% 1/16W	R534	0700057	CF 18K OHM +-5% 1/16W
R502	0700035	CF 390 OHM +-5% 1/16W	R535	0700041	CF 1K OHM +-5% 1/16W
R5020	0700054	CF 10K OHM +-5% 1/16W	R538	0700027	CF 100 OHM +-5% 1/16W
R5021	0700054	CF 10K OHM +-5% 1/16W	R539	0700038	CF 680 OHM +-5% 1/16W
R5022	0700059	CF 27K OHM +-5% 1/16W	R540	0700051	CF 5.6K OHM +-5% 1/16W
R5023	0700058	CF 22K OHM +-5% 1/16W	R541	0700038	CF 680 OHM +-5% 1/16W
R5024	0700057	CF 18K OHM +-5% 1/16W	R542	0700041	CF 1K OHM +-5% 1/16W
R5025	0700054	CF 10K OHM +-5% 1/16W	R543	0700066	CF 82K OHM +-5% 1/16W
R5026	0700054	CF 10K OHM +-5% 1/16W	R545	0700061	CF 33K OHM +-5% 1/16W
R5027	0700064	CF 56K OHM +-5% 1/16W	R546	0700066	CF 82K OHM +-5% 1/16W
R5028	0700064	CF 56K OHM +-5% 1/16W	R547	0700054	CF 10K OHM +-5% 1/16W
R5029	0100129	CF 470K OHM +-5% 1/8W	R550	0700041	CF 1K OHM +-5% 1/16W
R503	0700041	CF 1K OHM +-5% 1/16W	R5501	0700027	CF 100 OHM +-5% 1/16W
R5030	0700055	CF 12K OHM +-5% 1/16W	R5502	0700041	CF 1K OHM +-5% 1/16W
R5031	0700052	CF 6.8K OHM +-5% 1/16W	R5503	0700041	CF 1K OHM +-5% 1/16W
R5032	0700041	CF 1K OHM +-5% 1/16W	R5506	0100041	CF 100 OHM +-5% 1/8W
R5033	0700058	CF 22K OHM +-5% 1/16W	R5508	0700066	CF 82K OHM +-5% 1/16W
R5034	0700058	CF 22K OHM +-5% 1/16W	R5509	0700058	CF 22K OHM +-5% 1/16W
R5035	0700027	CF 100 OHM +-5% 1/16W	R551	0700062	CF 39K OHM +-5% 1/16W
R5036	0700041	CF 1K OHM +-5% 1/16W	R5510	0700027	CF 100 OHM +-5% 1/16W
R504	0700027	CF 100 OHM +-5% 1/16W	R5512	0700024	CF 56 OHM +-5% 1/16W
R5041	0700054	CF 10K OHM +-5% 1/16W	R5513	0700053	CF 8.2K OHM +-5% 1/16W
R5055	0700041	CF 1K OHM +-5% 1/16W	R5514	0700039	CF 820 OHM +-5% 1/16W
R5056	0700063	CF 47K OHM +-5% 1/16W	R5515	0700037	CF 560 OHM +-5% 1/16W
R5057	0700066	CF 82K OHM +-5% 1/16W	R5516	0700037	CF 560 OHM +-5% 1/16W
R5058	0700047	CF 3.3K OHM +-5% 1/16W	R5517	0700054	CF 10K OHM +-5% 1/16W
R506	0700039	CF 820 OHM +-5% 1/16W	R5518	0700041	CF 1K OHM +-5% 1/16W
R5060	0700063	CF 47K OHM +-5% 1/16W	R5519	0700027	CF 100 OHM +-5% 1/16W
R5062	0700027	CF 100 OHM +-5% 1/16W	R552	0700054	CF 10K OHM +-5% 1/16W
R5063	0700027	CF 100 OHM +-5% 1/16W	R5520	0150283	VR 1K OHM-B
R5064	0700027	CF 100 OHM +-5% 1/16W	R5520	0700041	CF 1K OHM +-5% 1/16W
R507	0187062	CF 750 OHM +-5% 1/16W	R5521	0700039	CF 820 OHM +-5% 1/16W
R508	0700039	CF 820 OHM +-5% 1/16W	R5521	0700041	CF 1K OHM +-5% 1/16W
R509	0700027	CF 100 OHM +-5% 1/16W	R5522	0700038	CF 680 OHM +-5% 1/16W
R510	0700035	CF 390 OHM +-5% 1/16W	R5522	0700041	CF 1K OHM +-5% 1/16W
R511	0700054	CF 10K OHM +-5% 1/16W	R5523	0700038	CF 680 OHM +-5% 1/16W
R512	0700027	CF 100 OHM +-5% 1/16W	R5523	0700054	CF 10K OHM +-5% 1/16W
R513	0700039	CF 820 OHM +-5% 1/16W	R5524	0700027	CF 100 OHM +-5% 1/16W
R514	0700041	CF 1K OHM +-5% 1/16W	R5526	0700045	CF 2.2K OHM +-5% 1/16W
R515	0700041	CF 1K OHM +-5% 1/16W	R5528	0700041	CF 1K OHM +-5% 1/16W
R516	0700042	CF 1.2K OHM +-5% 1/16W	R5529	0700056	CF 15K OHM +-5% 1/16W
R523	0700034	CF 330 OHM +-5% 1/16W	R553	0700027	CF 100 OHM +-5% 1/16W
R524	0700034	CF 330 OHM +-5% 1/16W	R5530	0700027	CF 100 OHM +-5% 1/16W
R525	0700027	CF 100 OHM +-5% 1/16W	R5530	0700054	CF 10K OHM +-5% 1/16W
R526	0700033	CF 270 OHM +-5% 1/16W	R5531	0700038	CF 680 OHM +-5% 1/16W
R527	0700032	CF 220 OHM +-5% 1/16W	R5531	0700045	CF 2.2K OHM +-5% 1/16W
R528	0700037	CF 560 OHM +-5% 1/16W	R5534	0700041	CF 1K OHM +-5% 1/16W
R529	0700027	CF 100 OHM +-5% 1/16W	R5536	0150286	VR 5K OHM B
R530	0700056	CF 15K OHM +-5% 1/16W	R5536	0700054	CF 10K OHM +-5% 1/16W
R531	0700055	CF 12K OHM +-5% 1/16W	R5537	0700048	CF 3.9K OHM +-5% 1/16W
R532	0700041	CF 1K OHM +-5% 1/16W	R5538	0700027	CF 100 OHM +-5% 1/16W

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SYMBOL NO.	PART NO.	DESCRIPTION
R5539	0700027	CF 100 OHM +-5% 1/16W
R554	0700027	CF 100 OHM +-5% 1/16W
R5540	0700041	CF 1K OHM +-5% 1/16W
R5541	0700041	CF 1K OHM +-5% 1/16W
R5543	0700027	CF 100 OHM +-5% 1/16W
R5544	0700027	CF 100 OHM +-5% 1/16W
R5550	0700061	CF 33K OHM +-5% 1/16W
R5551	0700054	CF 10K OHM +-5% 1/16W
R5552	0700054	CF 10K OHM +-5% 1/16W
R5553	0700062	CF 39K OHM +-5% 1/16W
R5555	0700054	CF 10K OHM +-5% 1/16W
R5556	0700054	CF 10K OHM +-5% 1/16W
R5560	0700058	CF 22K OHM +-5% 1/16W
R5570	0700027	CF 100 OHM +-5% 1/16W
R5572	0700061	CF 33K OHM +-5% 1/16W
R558	0700041	CF 1K OHM +-5% 1/16W
R559	0700059	CF 27K OHM +-5% 1/16W
R560	0700033	CF 270 OHM +-5% 1/16W
R561	0700064	CF 56K OHM +-5% 1/16W
R6001	0700067	CF 100K OHM +-5% 1/16W
R6002	0700063	CF 47K OHM +-5% 1/16W
R6003	0700058	CF 22K OHM +-5% 1/16W
R601	0700041	CF 1K OHM +-5% 1/16W
R6011	0700067	CF 100K OHM +-5% 1/16W
R6012	0700063	CF 47K OHM +-5% 1/16W
R6013	0179561	MG 2.2M OHM +-5% 1/8W
R6014	0700041	CF 1K OHM +-5% 1/16W
R6015	0700062	CF 39K OHM +-5% 1/16W
R6016	0700061	CF 33K OHM +-5% 1/16W
R602	0700046	CF 2.7K OHM +-5% 1/16W
R603	0100117	CF 150K OHM +-5% 1/8W
R604	0700044	CF 1.8K OHM +-5% 1/16W
R605	0700052	CF 6.8K OHM +-5% 1/16W
R606	0700057	CF 18K OHM +-5% 1/16W
R607	0100121	CF 220K OHM +-5% 1/8W
R608	0700061	CF 33K OHM +-5% 1/16W
R609	0700062	CF 39K OHM +-5% 1/16W
R610	0700037	CF 560 OHM +-5% 1/16W
R612	0100041	CF 100 OHM +-5% 1/8W
R613	0700063	CF 47K OHM +-5% 1/16W
R614	0700059	CF 27K OHM +-5% 1/16W
R615	0150116	VR 50K OHM-B
R616	0700046	CF 2.7K OHM +-5% 1/16W
R617	0700053	CF 8.2K OHM +-5% 1/16W
R618	0700058	CF 22K OHM +-5% 1/16W
R619	0700041	CF 1K OHM +-5% 1/16W
R620	0113735	CF 270 OHM +-5% 1/2W
R6201	0700048	CF 3.9K OHM +-5% 1/16W
R621	0700057	CF 18K OHM +-5% 1/16W
R622	0113686	CF 2.7 OHM +-5% 1/2W
R623	0113686	CF 2.7 OHM +-5% 1/2W
R624	0700062	CF 39K OHM +-5% 1/16W
R625	0700041	CF 1K OHM +-5% 1/16W
R626	0700041	CF 1K OHM +-5% 1/16W
R627	0700027	CF 100 OHM +-5% 1/16W
R630	0700054	CF 10K OHM +-5% 1/16W
R631	0700058	CF 22K OHM +-5% 1/16W
R632	0119722	MF 1 OHM +-5% 1W
R651	0700049	CF 4.7K OHM +-5% 1/16W
R652	0700054	CF 10K OHM +-5% 1/16W
R653	0700041	CF 1K OHM +-5% 1/16W
R654	0700065	CF 68K OHM +-5% 1/16W
R655	0700041	CF 1K OHM +-5% 1/16W
R656	0150286	VR 5K OHM B
R657	0150284	VR 2K OHM-B
R658	0700066	CF 82K OHM +-5% 1/16W
R659	0100079	CF 3.9K OHM +-5% 1/8W
R660	0700054	CF 10K OHM +-5% 1/16W
R662	0700059	CF 27K OHM +-5% 1/16W
R665	0100081	CF 4.7K OHM +-5% 1/8W
R695	0113754	CF 1.5K OHM +-5% 1/2W
R7001	0700067	CF 100K OHM +-5% 1/16W
R7002	0700063	CF 47K OHM +-5% 1/16W
R7003	0700058	CF 22K OHM +-5% 1/16W
R7004	0700041	CF 1K OHM +-5% 1/16W
R701	0114131	CF 100 OHM +-5% 1/4W
R702	0700041	CF 1K OHM +-5% 1/16W
R714	0700042	CF 1.2K OHM +-5% 1/16W
R715	0100117	CF 150K OHM +-5% 1/8W
R716	0100119	CF 180K OHM +-5% 1/8W
R7201	0147825	WW 5.6 OHM +-10% 16W
R7202	0700043	CF 1.5K OHM +-5% 1/16W
R7203	0100105	CF 47K OHM +-5% 1/8W
R7204	0700067	CF 100K OHM +-5% 1/16W
R7205	0700054	CF 10K OHM +-5% 1/16W
R7211	0110285	MF 47K OHM +-5% 2W
R7212	0100065	CF 1K OHM +-5% 1/8W
R722	0700042	CF 1.2K OHM +-5% 1/16W
R7221	0110159	MF 3.9K OHM +-5% 1W
R724	0700033	CF 270 OHM +-5% 1/16W
R725	0700043	CF 1.5K OHM +-5% 1/16W
R726	0150113	VR 5K OHM-B RS-6
⚠R732	0145051S	WW 2.7K OHM +-5% 7W
R734	0113770	CF 6.8K OHM +-5% 1/2W
R735	0119688	MF 0.22 OHM +-5% 1W
R736	0700026	CF 82 OHM +-5% 1/16W
R737	0114145	CF 390 OHM +-5% 1/4W
R738	0100101	CF 33K OHM +-5% 1/8W
R739	0700051	CF 5.6K OHM +-5% 1/16W
R740	0700055	CF 12K OHM +-5% 1/16W
R741	0113795	CF 68K OHM +-5% 1/2W
R742	0114175	CF 3.9K OHM +-5% 1/4W
R745	0700044	CF 1.8K OHM +-5% 1/16W
⚠R749	0114213	CF 33K OHM +-5% 1/4W

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SYMBOL NO.	PART NO.	DESCRIPTION
⚠R750	0100097	CF 22K OHM +-5% 1/8W
R751	0700048	CF 3.9K OHM +-5% 1/16W
R752	0700041	CF 1K OHM +-5% 1/16W
R756	0700067	CF 100K OHM +-5% 1/16W
R757	0700051	CF 5.6K OHM +-5% 1/16W
R759	0700043	CF 1.5K OHM +-5% 1/16W
R762	0700027	CF 100 OHM +-5% 1/16W
R763	0100053	CF 330 OHM +-5% 1/8W
R764	0700034	CF 330 OHM +-5% 1/16W
R768	0113731	CF 180 OHM +-5% 1/2W
⚠R772	0110243	MF 820 OHM +-5% 2W
R7901	0113735	CF 270 OHM +-5% 1/2W
⚠R7911	0110208	MF 30 OHM +-5% 2W
⚠R7912	0110208	MF 30 OHM +-5% 2W
R7956	0119838	FR 0.5 OHM +-5% 1/4W
R7991	0700051	CF 5.6K OHM +-5% 1/16W
R7992	0700039	CF 820 OHM +-5% 1/16W
R7994	0118961M	MF 100K OHM +-1% 1/4W
R7995	0100089	CF 10K OHM +-5% 1/8W
R7997	0700045	CF 2.2K OHM +-5% 1/16W
R833	0113815	CF 470K OHM +-5% 1/2W
R851A	0110255	MF 2.7K OHM +-5% 2W
R851B	0110255	MF 2.7K OHM +-5% 2W
R852A	0110255	MF 2.7K OHM +-5% 2W
R852B	0110255	MF 2.7K OHM +-5% 2W
R853A	0110255	MF 2.7K OHM +-5% 2W
R853B	0110255	MF 2.7K OHM +-5% 2W
R854	0113744	CF 560 OHM +-5% 1/2W
R855	0113744	CF 560 OHM +-5% 1/2W
R856	0113744	CF 560 OHM +-5% 1/2W
R857	0100035	CF 56 OHM +-5% 1/8W
R858	0100035	CF 56 OHM +-5% 1/8W
R859	0100035	CF 56 OHM +-5% 1/8W
⚠R860	0150109	VR 200 OHM-B RS-6
R861	0100027	CF 27 OHM +-5% 1/8W
R863	0100033	CF 47 OHM +-5% 1/8W
R864	0150109	VR 200 OHM-B RS-6
R865	0100027	CF 27 OHM +-5% 1/8W
R866	0150112	VR 2K OHM-B
R867	0100057	CF 470 OHM +-5% 1/8W
⚠R868	0150112	VR 2K OHM-B
R869	0100057	CF 470 OHM +-5% 1/8W
⚠R870	0150112	VR 2K OHM-B
R871	0100057	CF 470 OHM +-5% 1/8W
R874	0700054	CF 10K OHM +-5% 1/16W
R875	0100049	CF 220 OHM +-5% 1/8W
R876	0100049	CF 220 OHM +-5% 1/8W
R877	0100049	CF 220 OHM +-5% 1/8W
R878	0100063	CF 820 OHM +-5% 1/8W
R879	0100063	CF 820 OHM +-5% 1/8W
R880	0100063	CF 820 OHM +-5% 1/8W
R886	0100051	CF 270 OHM +-5% 1/8W
R888	0100041	CF 100 OHM +-5% 1/8W
R889	0100077	CF 3.3K OHM +-5% 1/8W
R890	0100077	CF 3.3K OHM +-5% 1/8W
R891	0100077	CF 3.3K OHM +-5% 1/8W
R892	0100033	CF 47 OHM +-5% 1/8W
R896	0100099	CF 27K OHM +-5% 1/8W
R897	0100099	CF 27K OHM +-5% 1/8W
R898	0100049	CF 220 OHM +-5% 1/8W
R899	0100093	CF 15K OHM +-5% 1/8W
R9001	0113729	CF 150 OHM +-5% 1/2W
R901	0140967M	MF 4700K OHM +-5% 1/2W
R902	0147815	WW 2.2 OHM +-10% 15W
R903	0113791	CF 47K OHM +-5% 1/2W
R904	0110161	MF 4.7K OHM +-5% 1W
R905	0100077	CF 3.3K OHM +-5% 1/8W
R906	0110199S	MF 12 OHM +-5% 2W
R907	0148044	WW 0.15 OHM +-10% 3W
R907A	0119722	MF 1 OHM +-5% 1W
R908	0700041	CF 1K OHM +-5% 1/16W
R910	0119690	MF 0.27 OHM +-5% 1W
R911	0700027	CF 100 OHM +-5% 1/16W
R913	0114047	CF 18 OHM +-5% 1/4W
R914	0700067	CF 100K OHM +-5% 1/16W
R916	0100065	CF 1K OHM +-5% 1/8W
R917	0113791	CF 47K OHM +-5% 1/2W
R918	0114061	CF 68 OHM +-5% 1/4W
R919	0100077	CF 3.3K OHM +-5% 1/8W
R920	0110217	MF 68 OHM +-5% 2W
R951	0110103	MF 18 OHM +-5% 1W
R952	0114213	CF 33K OHM +-5% 1/4W
R953	0700049	CF 4.7K OHM +-5% 1/16W
R954	0113795	CF 68K OHM +-5% 1/2W
R955	0113793	CF 56K OHM +-5% 1/2W
R956	0700047	CF 3.3K OHM +-5% 1/16W
R957	0110229	MF 220 OHM +-5% 2W
R958	0700054	CF 10K OHM +-5% 1/16W
R959	0700052	CF 6.8K OHM +-5% 1/16W
R960	0700054	CF 10K OHM +-5% 1/16W
R961	0700052	CF 6.8K OHM +-5% 1/16W
R962	0700054	CF 10K OHM +-5% 1/16W
R966	0700064	CF 56K OHM +-5% 1/16W
R969	0100077	CF 3.3K OHM +-5% 1/8W
R970	0100041	CF 100 OHM +-5% 1/8W
R971	0700049	CF 4.7K OHM +-5% 1/16W
R972	0113783	CF 22K OHM +-5% 1/2W
R973	0700054	CF 10K OHM +-5% 1/16W
R974	0700027	CF 100 OHM +-5% 1/16W
R980	0700052	CF 6.8K OHM +-5% 1/16W
R981	0700051	CF 5.6K OHM +-5% 1/16W
R982	0700027	CF 100 OHM +-5% 1/16W
⚠R998	0174704G	MF 10M OHM +-5% 1W
RC3720	0100041	CF 100 OHM +-5% 1/8W

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SYMBOL NO.	PART NO.	DESCRIPTION
RC5505	0700066	CF 82K OHM +-5% 1/16W
RK112	0700027	CF 100 OHM +-5% 1/16W
RK152	0700023	CF 47 OHM +-5% 1/16W
RK232	0700064	CF 56K OHM +-5% 1/16W
RK421	0100041	CF 100 OHM +-5% 1/8W
RK499	0700054	CF 10K OHM +-5% 1/16W
VR951	0150152	VR 1K OHM-B RV-6
⚠IC0001	CP00921	IC M37204MC-852SP
IC0002	2007831	IC M6M80041P
IC0003	2003522	IC PST572D-2
IC1001	CP00593	IC M37470M8-240SP
IC1002	2009401R	IC PST529C
⚠IC1301	2003811	IC M52472P (LINEAR)
⚠IC201	2004171	IC LA7577
⚠IC202	2004693	IC MM1113XS
IC3501	2003811	IC M52472P (LINEAR)
IC3503	2008741	IC TEA5114A
⚠IC351	2004441	IC CF72306
⚠IC352	2020521	IC CF70200
IC353	2003522	IC PST572D-2
⚠IC401	2020561	IC LA7975
⚠IC4501	2004901	IC TA8776N
⚠IC4502	2916321	IC LA4280
⚠IC5001	2020324	IC YA7016H
⚠IC5002	2008721	IC M62358P
⚠IC501	2383341	IC LVA522S-2
⚠IC502	2383341	IC LVA522S-2
⚠IC503	2003221	IC LVA521S-2 (LINEAR)
⚠IC5501	2020662	IC LA7640N
IC5503	2003221	IC LVA521S-2 (LINEAR)
⚠IC601	2003541	IC LA7838 (LINEAR)
⚠IC651	2380651	IC AN5551
⚠IC7911	2020505	IC AN7809F
IC9001	2003421	IC UPC7805AHF
⚠IC901	2373382	IC STR-S6709
⚠IC902	CZ00052	IC TLP633 (GB)
Q0001	2312995	PHOTO TRANSISTOR RPT-38PT3F (L/M)
Q0001	2327773	TR 2SC3413 (C)/(D)
Q0002	2325702	TR 2SA854S Q/R
Q0002	2327753	TR 2SA1390 (C)/(D)
Q0003	2327772	TR 2SC3413 (B)/(C)
Q0005	2327772	TR 2SC3413 (B)/(C)
Q0006	2327772	TR 2SC3413 (B)/(C)
Q0007	2327772	TR 2SC3413 (B)/(C)
Q0008	2327772	TR 2SC3413 (B)/(C)
Q0009	2327772	TR 2SC3413 (B)/(C)
Q001	2327772	TR 2SC3413 (B)/(C)
Q1001	2327773	TR 2SC3413 (C)/(D)
Q1002	2327773	TR 2SC3413 (C)/(D)
Q1003	2327773	TR 2SC3413 (C)/(D)
Q1301	2327772	TR 2SC3413 (B)/(C)
Q1302	2327772	TR 2SC3413 (B)/(C)
Q4504	2327772	TR 2SC3413 (B)/(C)
Q4505	2327772	TR 2SC3413 (B)/(C)
Q4506	2327772	TR 2SC3413 (B)/(C)
Q4507	2327772	TR 2SC3413 (B)/(C)
Q4508	2327772	TR 2SC3413 (B)/(C)
Q4509	2325702	TR 2SA854S Q/R
Q4510	2327772	TR 2SC3413 (B)/(C)
Q4511	2321351	TR 2SA836/844 D/E SI 200MHZ 300MW
Q481	2323432	TR 2SC1983R/O/Y SI
Q5001	2327772	TR 2SC3413 (B)/(C)
Q5004	2326875	TR DTC144WSTP
Q5005	2326875	TR DTC144WSTP
Q5006	2326875	TR DTC144WSTP
Q501	2327772	TR 2SC3413 (B)/(C)
Q502	2327753	TR 2SA1390 (C)/(D)
Q503	2327772	TR 2SC3413 (B)/(C)
Q504	2327772	TR 2SC3413 (B)/(C)
Q505	2327772	TR 2SC3413 (B)/(C)
Q506	2327772	TR 2SC3413 (B)/(C)
Q507	2327753	TR 2SA1390 (C)/(D)
Q510	2327772	TR 2SC3413 (B)/(C)
Q511	2327772	TR 2SC3413 (B)/(C)
Q512	2327772	TR 2SC3413 (B)/(C)
Q513	2326873	TR DTC144ES
Q514	2327772	TR 2SC3413 (B)/(C)
Q515	2327772	TR 2SC3413 (B)/(C)
Q516	2327772	TR 2SC3413 (B)/(C)
Q517	2326875	TR DTC144WSTP
Q518	2326873	TR DTC144ES
Q5501	2327773	TR 2SC3413 (C)/(D)
Q5504	2327753	TR 2SA1390 (C)/(D)
Q5505	2327772	TR 2SC3413 (B)/(C)
Q5505	2327773	TR 2SC3413 (C)/(D)
Q5506	2327772	TR 2SC3413 (B)/(C)
Q5507	2327773	TR 2SC3413 (C)/(D)
Q5508	2327773	TR 2SC3413 (C)/(D)
Q5510	2327773	TR 2SC3413 (C)/(D)
Q6001	2327772	TR 2SC3413 (B)/(C)
Q601	2325702	TR 2SA854S Q/R
Q6011	2327772	TR 2SC3413 (B)/(C)
Q6012	2327772	TR 2SC3413 (B)/(C)
Q602	2327772	TR 2SC3413 (B)/(C)
Q603	2327772	TR 2SC3413 (B)/(C)
Q604	2321112	TR 2SA778A
Q651	2312171	TR 2SC3852
Q7001	2327772	TR 2SC3413 (B)/(C)
⚠Q708	2315274F	TR 2SC4589-05
Q709	2326216	TR 2SC3116 S/T
Q711	2327772	TR 2SC3413 (B)/(C)
Q712	2327772	TR 2SC3413 (B)/(C)
⚠Q7201	2321112	TR 2SA778A
Q7211	2320663	TR 2SC1213AC SI 80MHZ 400MW
Q7901	2324611	TR 2SD882 Q/P
⚠Q7991	2323782	TR 03P2M
⚠Q851	2312371	TR 2SC3942
Q852	2320663	TR 2SC1213AC SI 80MHZ 400MW
Q853	2327753	TR 2SA1390 (C)/(D)
⚠Q854	2312371	TR 2SC3942
⚠Q855	2320663	TR 2SC1213AC SI 80MHZ 400MW
Q856	2327753	TR 2SA1390 (C)/(D)
⚠Q857	2312371	TR 2SC3942
Q858	2320663	TR 2SC1213AC SI 80MHZ 400MW
Q859	2327753	TR 2SA1390 (C)/(D)
Q9001	2312171	TR 2SC3852
Q901	2312174	TR 2SD2375 (P)
Q951	CF00114R	TR 2SC4490-AN (Q,R,T)
Q952	2315933	TR 2SB1548A-P/Q (HCPS) (YOKOHAMA)
Q953	CF00114R	TR 2SC4490-AN (Q,R,T)
Q954	2315933	TR 2SB1548A-P/Q (HCPS) (YOKOHAMA)
Q955	2320643	TR 2SC1213C SI 80MHZ 400MW
Q956	2320643	TR 2SC1213C SI 80MHZ 400MW
Q957	2320643	TR 2SC1213C SI 80MHZ 400MW
Q958	2315933	TR 2SB1548A-P/Q (HCPS) (YOKOHAMA)
Q959	2320637	TR 2SA673C/D SI 80MHZ 400MW
Q961	2327753	TR 2SA1390 (C)/(D)
D0001	23394821	DI AS01 (400V)
D0001	2339692	LED SLH-56MC77F
D0002	2339691	LED SLH-56VC77F
D0003	23383211	DI 1SS270
D0004	23383211	DI 1SS270
D0005	23383211	DI 1SS270
D0006	23383211	DI 1SS270
D0007	23383211	DI 1SS270
D0014	23383211	DI 1SS270
D0018	23383211	DI 1SS270
D0019	23383211	DI 1SS270
D0020	2343561	LED SPR-54MVW
D0022	23383211	DI 1SS270
D1001	23383211	DI 1SS270
D1002	23383211	DI 1SS270
D201	23383211	DI 1SS270
D202	23383211	DI 1SS270
D203	23383211	DI 1SS270
D204	23383211	DI 1SS270
D205	23383211	DI 1SS270
D206	23383211	DI 1SS270
D207	23383211	DI 1SS270
D208	23383211	DI 1SS270
D3001	23383211	DI 1SS270
D3003	23383211	DI 1SS270
D3004	23383211	DI 1SS270
D3005	23383211	DI 1SS270
D3006	23383211	DI 1SS270
D3007	23383211	DI 1SS270

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SYMBOL NO.	PART NO.	DESCRIPTION
D3010	23383211	DI 1SS270
D3011	23383211	DI 1SS270
D3012	23383211	DI 1SS270
D351	23383211	DI 1SS270
D3701	23394911	DI AM01Z
D3702	23394911	DI AM01Z
D3703	23394911	DI AM01Z
D3704	23394911	DI AM01Z
D3705	23383211	DI 1SS270
D3706	23383211	DI 1SS270
D401	23383211	DI 1SS270
D402	23383211	DI 1SS270
D403	23383211	DI 1SS270
D404	23383211	DI 1SS270
D405	23383211	DI 1SS270
D4501	23383211	DI 1SS270
D4502	23383211	DI 1SS270
D4503	23383211	DI 1SS270
D4504	23394811	DI AS01Z
D4505	23383211	DI 1SS270
D5001	23383211	DI 1SS270
D5002	23383211	DI 1SS270
D5003	23383211	DI 1SS270
D5004	23383211	DI 1SS270
D5005	23383211	DI 1SS270
D5006	23383211	DI 1SS270
D5007	23383211	DI 1SS270
D502	23383211	DI 1SS270
D503	23383211	DI 1SS270
D504	23383211	DI 1SS270
D505	23383211	DI 1SS270
D506	23383211	DI 1SS270
D507	23383211	DI 1SS270
D5501	23383211	DI 1SS270
D5501	23383211	DI 1SS270
D5502	23383211	DI 1SS270
D5502	23383211	DI 1SS270
D5503	23383211	DI 1SS270
D5504	23383211	DI 1SS270
D5505	23383211	DI 1SS270
D6001	23383211	DI 1SS270
D601	23394911	DI AM01Z
D602	23373411	DI 1SS270A
D603	23373411	DI 1SS270A
D604	23383211	DI 1SS270
D652	CH00151M	DI DSM1SD2
D701	2343981	DI ERD07-15
D702	2344071	DI ERC20M-04
D703	23383211	DI 1SS270
D704	23394811	DI AS01Z
D705	2338902	DI DFM1SA4
D706	23394811	DI AS01Z
D707	2338902	DI DFM1SA4
D710	23383211	DI 1SS270
D7201	23394811	DI AS01Z
D7211	23394811	DI AS01Z
D851	2331913	DI 1SS83 SI
D852	2331913	DI 1SS83 SI
D853	2331913	DI 1SS83 SI
D854	2334832	DI EK04
D855	2334832	DI EK04
D901	2338314	DI RBV-406M LF-A
D902	2359361	DI EL1ZV
D903	23394811	DI AS01Z
D904	23394811	DI AS01Z
D906	23394811	DI AS01Z
D907	23394811	DI AS01Z
D908	23394821	DI AS01 (400V)
D951	23389311	DI FMG-G26S
D952	2359361	DI EL1ZV
D953	2349851	DI FMB-G16L
D955	23394811	DI AS01Z
D956	2338944	DI FML-G12S(F)
D957	23394811	DI AS01Z
D958	23394811	DI AS01Z
D959	23383211	DI 1SS270
D961	2331913	DI 1SS83 SI
ZD0001	2331849	ZD HZ-12(C3)
ZD0002	2331849	ZD HZ-12(C3)
ZD001	2339231	ZD HZS30-1L
ZD3001	2339838M	ZD HZS5C2TA
ZD3002	2339868M	ZD HZS9C2
ZD3003	2339842M	ZD HZS6A2
ZD3004	2339868M	ZD HZS9C2
ZD3005	2339868M	ZD HZS9C2
ZD3710	2339022	DI ZENER HZS6B2L
ZD3711	2331849	ZD HZ-12(C3)
ZD4502	2339091M	ZD HZS9C1L TA
ZD4503	2339859M	DI HZS7C3
ZD4504	2339839	ZD HZS5C3
ZD4505	2339839	ZD HZS5C3
ZD481	2339022	DI ZENER HZS6B2L
ZD5001	2339868M	ZD HZS9C2
ZD5002	2339868M	ZD HZS9C2
ZD5003	2339868M	ZD HZS9C2
ZD5004	2339868M	ZD HZS9C2
ZD5005	2339868M	ZD HZS9C2
ZD5006	2339868M	ZD HZS9C2
ZD5501	2331849	ZD HZ-12(C3)
ZD5502	2331849	ZD HZ-12(C3)
ZD5503	2331849	ZD HZ-12(C3)
ZD5504	2331849	ZD HZ-12(C3)
ZD5505	2331829	ZD HZ9 (C3)
⚠ZD705	2339212M	ZD HZS24-2L
ZD706	2339889	ZD HZS12C3
ZD708	2339801	ZD HZS2B1
ZD709	2339151	ZD HZS12C1L
ZD710	2339862M	ZD HZS9A2
ZD7201	2339889	ZD HZS12C3
ZD7901	2339042	ZD HZS7A2L
ZD7902	2339042	ZD HZS7A2L
ZD7991	2339151	ZD HZS12C1L
ZD854	2342731M	ZD HZ2 (AT)
ZD855	2339612M	ZD HZS3BLL
ZD857	2339612M	ZD HZS3BLL
ZD862	2331155	ZD HZ12 (C1/C2/C3)
ZD863	2331155	ZD HZ12 (C1/C2/C3)
ZD864	2331155	ZD HZ12 (C1/C2/C3)
ZD9001	2339839	ZD HZS5C3
ZD9002	2331805	ZD HZ6 (B2)
ZD901	2339053	ZD HZS7B3L
ZD951	2339884M	DI ZENER HZS12B1
ZD952	23390511	ZD HZS7B1L
ZD953	2339022	DI ZENER HZS6B2L
ZD954	2339837	ZD HZS-5C1
T5501	2143563	BEL FILTER TRANSFORMER
T5502	2143341	7PL COIL
⚠T701	2260291	HOLIZONTAL DRIVE TRANSFORMER
⚠T702	2437392	FLYBACK TRANSFORMER
⚠T901	2275932	SWITCING TRANSFORMER
⚠F901	2720402	FUSE 3.15A
CP1001	2574881	IC GP1U781Q
CP1001	2791754	DSS306-55B101M
CP1002	2791754	DSS306-55B101M
CP1003	2791754	DSS306-55B101M
CP1004	2791754	DSS306-55B101M
CP1101	2791754	DSS306-55B101M
CP1102	2791754	DSS306-55B101M
CP1103	2791754	DSS306-55B101M
CP1104	2791754	DSS306-55B101M
CP1105	2791754	DSS306-55B101M
CP1106	2791754	DSS306-55B101M
CP1107	2791754	DSS306-55B101M
CP1108	2791752R	FILTER COIL
CP1109	2791752R	FILTER COIL
CP1110	2791752R	FILTER COIL
CP1111	2791752R	FILTER COIL
CP1112	2791754	DSS306-55B101M
CP201	BG00331	SAW FILTER HW3071
CP202	2305861	SAW FILTER HW2226
CP203	2142241	CERAMIC FILTER 4.5MHZ
CP204	2143473	TRAP COIL
CP205	2167871	CERAMIC TRAP 5.5/5.74MHZ
CP401	2142601	CERAMIC FILTER 4.5MHZ
CP402	2142602	CERAMIC FILTER
CP403	2142603	CERAMIC FILTER 6.0MB
CP405	2142604	CERAMIC FILTER 6.5MB
CP501	2143893	LC FILTER
CP502	CW00022	MODULE UGL-337KNT
CP503	2142331	CERAMIC TRAP 4.5MHZ
MF0001	2168371	CERAMIC OSCILLATOR 6.00MGW
DL501	2165801	DELAY LNE SDL4242
DL5501	2791154	DELAY LINE
L0001	2122956	LA AXIAL COIL 100 MICRO H +-10%
L0001	2123461	FERRITE BEADS CORE
L0002	2123461	FERRITE BEADS CORE
L0003	2122956	LA AXIAL COIL 100 MICRO H +-10%
L0004	2122956	LA AXIAL COIL 100 MICRO H +-10%
L001	2122253	LA AXIAL COIL 100 MICRO H
L002	2122253	LA AXIAL COIL 100 MICRO H
L003	2120489	FILTER COIL 100 MICRO H +-10%
L1001	2122956	LA AXIAL COIL 100 MICRO H +-10%
L201	2143601	FILTER COIL
L202	2143812	HIGH FREQUENCY COIL
L204	2123407M	AXIAL COIL
L205	2123097M	AXIAL COIL 3.9MH
L208	2123461	FERRITE BEADS CORE
L209	2122253	LA AXIAL COIL 100 MICRO H
L210	2123103M	LAL AXIAL COIL 10 MICRO H
L211	2123099M	LA AXIAL COIL 5.6 MICRO H
L212	2123103M	LAL AXIAL COIL 10 MICRO H
L3001	2123781	FILTER COIL
L3002	2122956	LA AXIAL COIL 100 MICRO H +-10%
L3003	2123781	FILTER COIL
L3004	2123781	FILTER COIL
L3501	2123781	FILTER COIL
L3502	2122253	LA AXIAL COIL 100 MICRO H
L3503	2123781	FILTER COIL
L3504	2123781	FILTER COIL
L3505	2123781	FILTER COIL
L351	2123781	FILTER COIL
L3701	2122943	LA AXIAL COIL 10 MICRO H +-10%
L3702	2123468	FERRITE BEADS CORE LEAD 0.8
L3703	2123468	FERRITE BEADS CORE LEAD 0.8
L3704	2123468	FERRITE BEADS CORE LEAD 0.8
L3711	2123781	FILTER COIL
L401	2145992	HIGH FREQUENCY COIL
L402	2145991	HIGH FREQUENCY COIL
L403	2123106M	AXIAL COIL
L4503	2123468	FERRITE BEADS CORE LEAD 0.8
L4504	2123468	FERRITE BEADS CORE LEAD 0.8
L4505	2123468	FERRITE BEADS CORE LEAD 0.8
L481	2122956	LA AXIAL COIL 100 MICRO H +-10%
L482	2123781	FILTER COIL
L485	BJ00021	LC FILTER
L501	2123781	FILTER COIL
L502	2123781	FILTER COIL
L503	2122948	LA AXIAL COIL 27 MICRO H +-10%

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SYMBOL NO.	PART NO.	DESCRIPTION
L504	2122931M	LAL AXIAL COIL
L505	2123781	FILTER COIL
L506	2123781	FILTER COIL
L507	2123781	FILTER COIL
L508	2122949	LA AXIAL COIL 33 MICRO H +-10%
L5501	2123781	FILTER COIL
L5502	2122945	LA AXIAL COIL 15 MICRO H +-10%
L5503	2122956	LA AXIAL COIL 100 MICRO H +-10%
L5504	2122956	LA AXIAL COIL 100 MICRO H +-10%
L701	2124183	COIL 500MH
L702	2275982	TRANSFORMER
L703	2125763R	COIL 270MH
L704	2122095	FILTER COIL 27 MICRO H
L710	2122956	LA AXIAL COIL 100 MICRO H +-10%
L7201	2220584	CHOKE COIL TSL0707330K
L851	2123763	RADIAL COIL 100MH
L852	2123763	RADIAL COIL 100MH
L853	2123763	RADIAL COIL 100MH
L854	2123766R	RADIAL COIL 180MH
L855	2123766R	RADIAL COIL 180MH
L856	2123766R	RADIAL COIL 180MH
L9001	2123781	FILTER COIL
L901	2276072	LINE FILTER
L903	2161152	FILTER COIL
L904	2161152	FILTER COIL
L905	2276061	DEGAUSSING COIL
L951	2123781	FILTER COIL
L952	2123781	FILTER COIL
L953	2123781	FILTER COIL
L954	2123781	FILTER COIL
L955	2123781	FILTER COIL
L956	2123781	FILTER COIL
L957	2123781	FILTER COIL
S0001	FE00044	TACT PUSH SWITCH
S0002	2632922	TACTO SWITCH
S851	2622571	SLIDE SWITCH
⚠S901	2634731	PUSH SWITCH (HCPS) (YOKOHAMA)
⚠V1	2471562	COLOR PICTURE TUBE A68KSA30X (D)
	2661756	1P PLUG PIN WITH BASE
	2902263	4P SUB MINI PLUG PIN
	2959054	5P PLUG
	3274061	BUTTON HOLDER
	3274122	POWER BUTTON
	3332453	SPRING FOR KNOB
	3727972	HOLDER-AC LINE CORD
	3746071	IEC CORD HOLDER
	3822045	DOOR ASS'Y
	3875771	LATCH
	3881852	DAMPER
	4159411	3X8 KNURL TAPPING SCREW
	4159427	3X10 TAPPING SCREW WITH WASHER
	4319361	M4X12 CE KNURL TAPPING SCREW

SYMBOL NO.	PART NO.	DESCRIPTION
	4518376	SCREW
	4519512	TAPPING SCREW 4X16 MM
	4520232	4X16 DT SCREW
	4520881	M3X8 SCREW WITH WASHER
	4520883	M3X12 SCREW WITH WASHER
	PC00711	CH. BUTTON
	QD01272	BACK COVER ASS'Y
	QD01737	FRAME ASS'Y
N01	MQ00021	WEDGE
N02	2772982	FERRITE SHEET
N701	3763752	SK BINDER
N702	3333923	EARTH SPRING
N9001	4520883	M3X12 SCREW WITH WASHER
E008	2905241	ANTENNA ADAPTOR
E102	3731081	PURSE LOCK 10
E108	3731081	PURSE LOCK 10
⚠E900	2971171	POWER SUPPLY CORD
E901	2721351	FUSE HOLDER
E902	2661753	PIN PLUG WITH BASE
E903	2786227	CPT EARTH WIRE
E904	3700971	LEAD CLAMP
FB351	2774631	FERRITE BEADS CORE
FB903	2123461	FERRITE BEADS CORE
FB904	2123462M	FERRITE BEADS CORE
FB951	2123462M	FERRITE BEADS CORE
FB952	2123462M	FERRITE BEADS CORE
FB953	2123462M	FERRITE BEADS CORE
FB956	2123462M	FERRITE BEADS CORE
FB957	2123462M	FERRITE BEADS CORE
FB959	2123462M	FERRITE BEADS CORE
FB960	2123462M	FERRITE BEADS CORE
FB961	2771892	FERRITE BEADS CORE 004
FB962	2771892	FERRITE BEADS CORE 004
FB963	2771892	FERRITE BEADS CORE 004
FB964	2771892	FERRITE BEADS CORE 004
FB999	2123462M	FERRITE BEADS CORE
⚠SP401	GM00071	SPEAKER UNIT
⚠SP402	GM00071	SPEAKER UNIT
TH901	2341323	TH (HCPS) (YOKOHAMA)
U0001	HL00171	REMOTE CONTROL TRANSMITTER CLE-908
U0002	2428732	TUNER ET-575AC
U0003	2439021	MULTI IF PACK
⚠U001	2428732	TUNER ET-575AC
U004	2693911	TERMINAL BOARD
⚠U4801	2575651	NICAM UNIT
U5500	2375571	CHIP BOARD HC3061
⚠U701	2444254	DEFLECTION YOKE
X1001	2792071	CERAMIC OSCILLATOR
X351	2940251	CRYSTAL 13.875MHZ
X401	2168971	CERAMIC OSCILLATOR CSB503E5
X5001	27885911	CRYSTAL
X5002	2787572	CRYSTAL

PRODUCT SAFETY NOTE : Components marked with a ⚠ have special characteristics important to safety.
Before replacing any of there components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual.
Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION
X5501	2787572	CRYSTAL
X701	2786685	CRYSTAL
SG901	2340039	SPARK GAP
P1E2	2665271	PLUG WITH BASE (4P)
P1M	2665272	4P PLUG PIN WITH BASE
P1P51	2661756	1P PLUG PIN WITH BASE
P1P51	2661756	1P PLUG PIN WITH BASE
P1PB	2663135	PLUG PIN WITH BASE (6P)
P1PB	2663135	PLUG PIN WITH BASE (6P)
P1PC	2902266	7P SUB MINI PLUG PIN
P1PC	2902266	7P SUB MINI PLUG PIN
P1PD1	2665272	4P PLUG PIN WITH BASE
P1PD2	2665272	4P PLUG PIN WITH BASE
P1PP0	2902263	4P SUB MINI PLUG PIN
ANTA	EY00031	PIN CABLE L TYPE (150MM)
ANTB	EY00031	PIN CABLE L TYPE (150MM)
E	2953348	CPT SOCKET
EB	2776541	VM MAGNET
ECRT	2771461	MAGNET PEACE
JA1301	2693863	9 PIN TERMINAL
JA1302	2693851	5 TERMINAL JACK
JA1303	2695291	US PIN JACK
LK126	2123781	FILTER COIL
N	4615644	WEDGE
NZ3709	4520883	M3X12 SCREW WITH WASHER
NZ3710	4520883	M3X12 SCREW WITH WASHER